

## SEQUENCE LISTING

<110> C. Frank Bennett  
Susan M. Freier

<120> ANTISENSE MODULATION OF COREST EXPRESSION

<130> RTS-0297

<160> 91

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctccctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga.

20

<210> 3

<211> 1449

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1)...(1449)

&lt;400&gt; 3

atg gtg gag aag ggc ccc gag gtc tca ggg aag cgg aga ggg agg aac 48  
Met Val Glu Lys Gly Pro Glu Val Ser Gly Lys Arg Arg Gly Arg Asn  
1 5 10 15

aac gcg gcc gcc tcc gcc tcc gcc gcc gcc gcc tcc gcc gcc gcc tcg 96  
Asn Ala Ala Ala Ser Ala Ser Ala Ala Ala Ala Ser Ala Ala Ala Ser  
20 25 30

gcc gcc tgc gcc tcg cca gcc gcc act gcc gcc tcg ggc gcc gcc gcc 144  
Ala Ala Cys Ala Ser Pro Ala Ala Thr Ala Ala Ser Gly Ala Ala Ala  
35 40 45

tcc tca gcc tcg gcc gcc gcc gcc tca gcc gcc gcc gcc ccc aat aat 192  
Ser Ser Ala Ser Ala Ala Ala Ala Ser Ala Ala Ala Ala Pro Asn Asn  
50 55 60

ggc cag aat aaa agt ttg gcg gcg gcg gcg ccc aat ggc aac agc agc 240  
Gly Gln Asn Lys Ser Leu Ala Ala Ala Ala Pro Asn Gly Asn Ser Ser  
65 70 75 80

agc aac tcc tgg gag gaa ggc agc tcg ggc tcg tcc agc gac gag gag 288  
Ser Asn Ser Trp Glu Glu Gly Ser Ser Gly Ser Ser Ser Asp Glu Glu  
85 90 95

cac ggt ggc ggt ggc atg agg gtc gga ccc cag tac cag gcg gtg gtg 336  
His Gly Gly Gly Gly Met Arg Val Gly Pro Gln Tyr Gln Ala Val Val  
100 105 110

ccc gac ttc gac ccc gcc aaa ctg gca aga cgc agt caa gaa cgg gac 384  
Pro Asp Phe Asp Pro Ala Lys Leu Ala Arg Arg Ser Gln Glu Arg Asp  
115 120 125

aat ctt ggc atg ttg gtc tgg tca ccc aat caa aat ctg tca gaa gca 432  
Asn Leu Gly Met Leu Val Trp Ser Pro Asn Gln Asn Leu Ser Glu Ala  
130 135 140

aag ttg gat gaa tac att gcc att gcc aaa gaa aag cat ggg tac aac 480  
Lys Leu Asp Glu Tyr Ile Ala Ile Ala Lys Glu Lys His Gly Tyr Asn  
145 150 155 160

atg gaa cag gct ctt ggg atg ctc ttc tgg cat aaa cat aat atc gaa 528  
Met Glu Gln Ala Leu Gly Met Leu Phe Trp His Lys His Asn Ile Glu  
165 170 175

aag tca ttg gct gat ttg ccc aac ttt acc cct ttc cca gat gag tgg 576  
Lys Ser Leu Ala Asp Leu Pro Asn Phe Thr Pro Phe Pro Asp Glu Trp  
180 185 190

act gtg gaa gat aaa gtc tta ttt gag caa gcc ttt agt ttt cat ggg 624  
Thr Val Glu Asp Lys Val Leu Phe Glu Gln Ala Phe Ser Phe His Gly  
195 200 205

aaa act ttt cat aga atc caa caa atg ctt cca gat aaa tct ata gca 672  
Lys Thr Phe His Arg Ile Gln Gln Met Leu Pro Asp Lys Ser Ile Ala  
210 215 220

agt ctg gtg aaa ttt tac tat tct tgg aag aag acg agg act aaa act 720  
Ser Leu Val Lys Phe Tyr Tyr Ser Trp Lys Lys Thr Arg Thr Lys Thr  
225 230 235 240

agt gtg atg gat cgc cat gcc cgg aaa caa aaa cgg gag cgg gag gag 768  
Ser Val Met Asp Arg His Ala Arg Lys Gln Lys Arg Glu Arg Glu Glu  
245 250 255

agc gag gat gaa ctg gaa gag gca aat gga aac aat ccc att gac att 816  
Ser Glu Asp Glu Leu Glu Glu Ala Asn Gly Asn Asn Pro Ile Asp Ile  
260 265 270

gag gtt gat caa aac aag gaa agc aaa aag gag gtt ccc cct act gag 864  
Glu Val Asp Gln Asn Lys Glu Ser Lys Lys Glu Val Pro Pro Thr Glu  
275 280 285

aca gtt cct cag gtc aaa aaa gaa aaa cat agc aca caa gct aaa aat 912  
Thr Val Pro Gln Val Lys Lys Glu Lys His Ser Thr Gln Ala Lys Asn  
290 295 300

aga gca aaa agg aaa cct cca aaa gga atg ttt ctt tct caa gaa gat 960  
Arg Ala Lys Arg Lys Pro Pro Lys Gly Met Phe Leu Ser Gln Glu Asp  
305 310 315 320

gtg gag gct gtt tct gcc aat gcc act gct gct acc acg gtg ctg aga 1008  
 Val Glu Ala Val Ser Ala Asn Ala Thr Ala Ala Thr Thr Val Leu Arg  
 325 330 335

caa cta gac atg gaa ttg gtt tca gtc aaa cga cag atc cag aat att 1056  
 Gln Leu Asp Met Glu Leu Val Ser Val Lys Arg Gln Ile Gln Asn Ile  
 340 345 350

aaa cag aca aac agt gct ctc aaa gaa aaa ctt gat ggt gga ata gaa 1104  
 Lys Gln Thr Asn Ser Ala Leu Lys Glu Lys Leu Asp Gly Gly Ile Glu  
 355 360 365

cca tat cga ctt cca gag gtc att cag aaa tgt aat gca cgt tgg act 1152  
 Pro Tyr Arg Leu Pro Glu Val Ile Gln Lys Cys Asn Ala Arg Trp Thr  
 370 375 380

aca gaa gag cag ctt ctc gcc gta caa gcc atc agg aaa tat ggc cga 1200  
 Thr Glu Glu Gln Leu Leu Ala Val Gln Ala Ile Arg Lys Tyr Gly Arg  
 385 390 395 400

gat ttt cag gca atc tca gac gtg att ggg aac aaa tca gtg gta caa 1248  
 Asp Phe Gln Ala Ile Ser Asp Val Ile Gly Asn Lys Ser Val Val Gln  
 405 410 415

gtg aaa aac ttt ttt gta aat tat cga cgc cgc ttc aac ata gat gaa 1296  
 Val Lys Asn Phe Phe Val Asn Tyr Arg Arg Arg Phe Asn Ile Asp Glu  
 420 425 430

gtt tta caa gaa tgg gag gca gaa cat ggt aaa gaa gag acc aat ggg 1344  
 Val Leu Gln Glu Trp Glu Ala Glu His Gly Lys Glu Glu Thr Asn Gly  
 435 440 445

ccc agt aac cag aag cct gtg aag tcc cca gat aat tcc att aag atg 1392  
 Pro Ser Asn Gln Lys Pro Val Lys Ser Pro Asp Asn Ser Ile Lys Met  
 450 455 460

ccc gaa gag gaa gac gag gct cct gtt ctg gat gtc aga tat gca tct 1440  
 Pro Glu Glu Glu Asp Glu Ala Pro Val Leu Asp Val Arg Tyr Ala Ser  
 465 470 475 480

gcc tcc tga 1449  
 Ala Ser

<210> 4  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4  
acaatcccat tgacattgag gtt

23

<210> 5  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5  
tttgctctat ttttagcttg tgtgct

26

<210> 6  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6  
aaggaggttc cccctactga gacagttcct

30

<210> 7  
<211> 19  
<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7

gaaggtgaag gtcggagtc

19

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8

gaagatggtg atgggatttc

20

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9

caagcttccc gttctcagcc

20

<210> 10

<211> 5241

<212> DNA

<213> Homo sapiens

<220>

<400> 10

ggcagctcgg gctcgtccag cgacgaggag cacggtggcg gtggcatgag ggtcggaccc 60  
 cagtaccagg cggtggtgcc cgacttcgac cccgccaaac tggcaagacg cagtcaagaa 120  
 cgggacaatc ttggcatggt ggtctggtca cccaatcaaa atctgtcaga agcaaagtgt 180  
 gatgaatata ttgccattgc caaagaaaag catgggtaca acatggaaca ggctcttggg 240  
 atgctcttct ggcataaaca taatatcgaa aagtcattgg ctgatttgcc caactttacc 300  
 cctttcccag atgagtggac tgtggaagat aaagtcttat ttgagcaagc ctttagtttt 360  
 catgggaaaa cttttcatag aatccaacaa atgcttccag ataaatctat agcaagtctg 420  
 gtgaaatddd actattcttg gaagaagacg aggactaaaa ctagtgtgat ggatcgccat 480  
 gcccggaaac aaaaacggga gcgggaggag agcgaggatg aactggaaga ggcaaatgga 540  
 aacaatccca ttgacattga ggttgatcaa aacaaggaaa gcaaaaagga ggttccccct 600  
 actgagacag ttcttcaggt caaaaaagaa aaacatagca cacaagctaa aaatagagca 660  
 aaaaggaaac ctccaaaagg aatgtttctt tctcaagaag atgtggaggc tgttttctgcc 720  
 aatgccactg ctgctaccac ggtgctgaga caactagaca tggaattggg ttcatgcaaa 780  
 cgacagatcc agaattataa acagacaaac agtgctctca aagaaaaact tgatggtgga 840  
 atagaaccat atcgacttcc agaggtcatt cagaaatgta atgcacgttg gactacagaa 900  
 gagcagcttc tcgccgtaca agccatcagg aaatatggcc gagatdddca ggcaatctca 960  
 gacgtgattg ggaacaaatc agtgggtaca gtgaaaaact tttttgtaaa ttatcgacgc 1020  
 cgcttcaaca tagatgaagt ttacaagaa tgggaggcag aacatggtaa agaagagacc 1080  
 aatgggcccc gtaaccagaa gcctgtgaag tccccagata attcattaa gatgcccga 1140  
 gaggaagacg aggctcctgt tctggatgtc agatatgcat ctgcctcctg agaaactggg 1200  
 ggctttgaac acttgggtgtg gactactgtg ttatccggga tatcagggtat tatgagacat 1260  
 cacctagcca tctgcatcac atctctctgg acaagcagct attaccaaaa aaggcatata 1320

cttccagtc tgtgctccat ctgccttaat tctttgctcg ttcttccatg ttggcgccac 1380  
ttcccagaga gctccactgc atctcacact ctgcccacgt gctggggaag tctcacggcc 1440  
tgcacatctc ttgtgactct gggaaccgcc tctcccgccg gagccccga gccccacaa 1500  
tggcagctct tcccagtcag cagcttcaga gcaggcagtc tccttggaag gcccgactct 1560  
gttcttgcac ggctgcagt ttctactttg tgcataagat cattttcaga gtcaccgcga 1620  
ccctgttggc cttctagaaa gtttcttttg ttcttttctg agacaaccac ctaagtata 1680  
atacgctttt ttggaaacta atatatattg ccagactgca tcataacctt tatcatgcca 1740  
agcatcctga tgcaactcac atttccctaa acatggggta cagttatgat ttataaattg 1800  
agttggctta aatctccctc ttctcccttc ccaagtgtta caaagatcat ttactgcaac 1860  
tgtcgttga cactgtagct taaagggaaac gtggacctca atgctttctg ccttcaactt 1920  
ttcagcattg tgaccccagg gtggttgcca ccccatcttt tctgacccc cccaccccc 1980  
ccacctcaa gaggttcggc ccacatcact gtacctggtg cttgtaaatt tggaattggt 2040  
gccttctcct tttggcaacc atggttatca atcctttttc tgtttttagtg tcttatttct 2100  
tctttcaagt tatttgctag ccaaagatga catcactgag attaggagac aggggagagc 2160  
ttgctgcaga ttctgacagt gcagatttta aatgtcagga tattagaata gctggcgctg 2220  
gtttatgaaa gctgcgcgtt gttccgcgtt ctctcggtgt gcctggcctt ttatgtggca 2280  
ctctgtatgt cagtttgtgt ccttcatgtg ctgatgtgat tacacaaaca ccatgcactc 2340  
tcttttcata tcagagtaca ggacagagaa gtgatcaatg tattggtcta gtgagactga 2400  
gatgaaaaga aataacctac agagtggctc gtaatgcctt ttggttggaac tgggaacaag 2460  
taaaaatttc taataaacat tttgagactt ccagaatcac ttttgttatc ttatcagacc 2520  
atgggcctgc tgagggttga gcagacagcc tgcattctaa cataacctgt tcccaccca 2580  
cggccattca gactgcactc aatacgctga agtcgctttt gttgttggtg ttgttggtt 2640



catcatttgg atttttttcc tgctttcaat accaaaaaaa tgcagatgct ttaaggccta 2700  
aacagaattc tgaagaattt aaaatatgca attaaagttt gatatgtttt gtctcccaag 2760  
caccttgttt tttgttggtg ttgttggtgt tgaagtcagc tgattttctc tttagaaaga 2820  
gggtcagcta gaaacctagg ttttttggaa ttgtaaattt ttttttagta tagtctggag 2880  
agaaaggta ttcaaaagga aagtacaatg ggacttgctg cccttcatca tctcgttccc 2940  
gtgccaggtg tgtgttggtc acgtaaaagc ctgggaagca tcagaggagt cccggattgc 3000  
tgctgctacc tggagacagg gttagcaaaa taacactagt gatgaggag aggcttcttt 3060  
tcaccataag cctgctgtgt acaccgagg cggcaggaga agcatggga ggagtcagcc 3120  
taagtttgca cattgcataa aggttacact aaggtatgag ctgaagcttt aggttctccg 3180  
tgcttccctc aagacctcct tcttgctaac agaagcagta ggcaattgct gcagtgcgtt 3240  
tctcaccctg ccaataggct tgtctgtatc tctgttaagg aaaatagcct ggtccctcct 3300  
ggcagtgcct ggaagcttga tgctaatttt tatatagcgt ggcaaactga ccagcagtgc 3360  
caggccttga tctgtattct gcactatccc tttacttggc tcttggcact gaatggtctc 3420  
cagccctgaa gaatcacgtg tgatcacagc agctgacctg ggctttctcc ccgagaggaa 3480  
ggggcatgct atttttattt gacagagggg aaatgggagc tgccttgac tgcctttggt 3540  
gtgctttccc gcgtaagata gcactgtgtt ttaaactgtt gcattacact gtctttgcaa 3600  
tgatgtaa at gtaagaaatc acttagcttt aaaagcgcag tggtttgatc ttatttatat 3660  
gaagactttt taacatatca agaattaggt gcattggcag gtagggtttg ggggtgtgata 3720  
actgcttcag atggaatgtt cacttaagct ttgtcttctt aaaaattatc aatgtgaatg 3780  
tcataattat atatattttt gtggaaaatt ttctcctaag tataagttat tgtgcaaaat 3840  
atagtgtcat tgatgcaaat aatagtttaa ctttttagttt agaactccta aaagatataa 3900  
attgtattgc atatgcatta aaagtttggt ttatttaatt ttatgtagat gtgtgaagtg 3960

ttaggtaaaa tttttttcac ttatccattt aaacaccttg ttacttgaat attgtgttga 4020  
ctggtctgca acagtgatcc attctgtaat atagctcttt taactgggaa ggaaccacac 4080  
cccagttgtg ccgattacat tagtgttggc acacagtcgg gtgctagtgt aacacaaatg 4140  
ccgcgttgtc tgggtgtaca gtgtttgtgg agacgccact tcctcaaaat ggtttttgat 4200  
tgtttttaac ctataagacg ttctgatgct cacaaacctc tattcaacac aaaaaacaaa 4260  
catgaaaagg tagttagttg ggttgtaaca gcttactggg gtggactcat aaaacagtgg 4320  
ctttctgttc atctaaagtt tcctcagata ccacagacca ctgttaagtg tgctcattgt 4380  
cactttaaat ttcaacgata ccctattttt gtcattctaa atatcagatg tactattggg 4440  
ataattgcac accaaaaata agccaaacag tgcattacgc taactggatc cctgctttta 4500  
tgtgagctaa ggaaagatgg agccaaactcc aacgagggcc tctttttctc tcttgtctag 4560  
cctgtttcta aaccgaatga tccaggattc aagcttctat tgtcaagtga aactttctc 4620  
agatggactc caggtagcca ggtcacctaa acctagtggg cctgtgcat gctctttctg 4680  
ccagtccttg aatctctgca gcttctctta cctgtcttac ctgtagtaaa gcacaattgc 4740  
agtggcgctg cattcagaag aagggaaggt cagcagaggc tatgcatggt gtgtgatgat 4800  
gagtgtttac agccaccttc tcctaaaacg aaatttatac cgggggtggat agtattccat 4860  
taggtagact tatcgacttt gctaagtgtt ttttagacag cttaaaaaat tttcaagatt 4920  
ttaaaagatg tataagggtta agtttgcaaa tataatggaa atgctgtata tcttttgaag 4980  
tgatgaaatc cacgttgga ttttaaagaa aatatgttgt aataatgctg ttgtaagtaa 5040  
tattttaatg tctctttgcc tgttttctat ttcagcacat tcattgtggg gaatgttcat 5100  
agcattataa ctgcttagcc attgaatgat aacatttggt agtggaatt ggaaaattta 5160  
tttgtaaat tctgcagaat tcatttttct atttccaata tttgctgagg ggttaaataa 5220  
aaattttcaa gccattgatg t 5241

&lt;210&gt; 11

&lt;211&gt; 139257

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; unsure

&lt;222&gt; 10445

&lt;223&gt; unknown

&lt;221&gt; unsure

&lt;222&gt; 23754

&lt;223&gt; unknown

&lt;400&gt; 11

caagggcagg ggccgcggcc aagggtaggg ggcggggagg gcggcgaact cctcgccgct 60  
gcctggagag atggatcatg gggcgtaggg agatggcaaa cctcaaacca cgtacggcgg 120  
gcgatacgcg tcaaccgaac ctgcgaacg gaagcccgga gccgcccctc cccgctcccc 180  
cgccccgcgg ccccgagcgg acgggcgcgc ggagccaacc ctcgctgccg ctggctgtcc 240  
aaatcccacc agagccaatg ggagcgcgag ggggggcgga gccgtctcgc gtcagttggg 300  
tgcgcgcccc cctccccggg cgccccctga ggccccgccc ctgcctcctc cctctccgc 360  
tcgctgctcc cggagtagtt ggtgccagt aagtgagggc ggcgatgaga gcgaaaagttg 420  
cgctcggtc gtcgctgggg gcttgaagcg gctccgcgct ctgccgttt gggcctcccc 480  
cgactcggac tcgcgcccgt gggctcccgc cgcgcccgcc cggccccgcg ccggccccgc 540  
gccccctccc ccgtctcggc gccccctcct caggagccgc gggccccgc cactttcga 600  
cggccccggc ccccgccgat gccggccatg gtggagaagg gccccgaggt ctcagggaag 660  
cggagaggga ggaacaacgc ggccgcctcc gcctccgcgc ccgcccctc cgccgcgcgc 720  
tcggccgcct gcgcctcgc agccgccact gccgcctcgc gcgcccgcgc ctctcagcc 780  
tcggccgcgc ccgcctcagc cgccgcgcgc cccaataatg gccagaataa aagtttggcg 840  
gcggcggcgc ccaatggcaa cagcagcagc aactcctggg aggaaggcag ctcgggctcg 900  
tccagcgacg aggagcacgg taggtggcag ccgccccgc gggccggggc cccgcgcccc 960  
gcgcgcgct gaccgccgta ttctgcttcc cccgcaggtg gcggtggcat gagggtcgga 1020  
ccccagtagc aggcggtggt gcccgaactc gaccccggtg agtagcggcc ccggccggcc 1080  
ggcggcgggg atgagcggga gccccgggtc cccggcgagc ccgagggggc gggagccccg 1140  
cgacaacttt ctttttgtgc gttcgccctg ccgtccgtgg ggagaacagc agggcgagga 1200  
cgaggaggcg cacacgcaca cgagtgttct gcaaactgct ctctgcaccc gggggaggcc 1260  
aggtcgcccc cagcaggggc ggcgcgcgct ccccttgcg cctccgagga ctgcgggtgg 1320  
cgctcgagggt ggccacacct ggcctggggg cgctgggggt ccctgcgtcc aggtgagctg 1380  
cgccctcgcc aggggtaagg gtggcagtg cgagaggtta gtgtcctgc agcggcccg 1440  
acttaggagg tccccagaga cccctttctc ggaacccttc ccaaaggctg ctccccacgc 1500  
ctttgtcct cctctcagcc tctgggctct tgctggctcc tgactgccct cccatccaga 1560

aggcgagtag aagaacgacc ccccaaaacc agtcaataaa agaagtgtgt tttccagagg 1620  
gcgcctgcct ggggaagaga gtctcgctg tggcagttgg attttaggac ctatttgtaa 1680  
atgtgtgtat ttcctttttt ttggaggaag agattgtgaa attgagaagc atcagaagct 1740  
ttagcctaac aaatgctttt cacctacaag aaagccctac accctagaat ggaacactta 1800  
gttccctggc tgctattctg tgtagaagca aatttaaagt ggtacaagaa aaaaaatccg 1860  
atcagacaaa ggaattcgtc agattttaat gcatgagatt ctagccagtg tctgtatgag 1920  
actgtcttta aaggttgttg gtatggaaaa tgtttgaaag aacgtaggat ttatttcaga 1980  
aataaaattc aaaagagcat cttgtaaagc tggagttaac aatcctccat ggttggaggg 2040  
ctttagagct ggggttctgt atgtgggtta taccactagt ttatttgaaa agataaacgc 2100  
atacatgttt tttccttgga aacaagactg cagaaaattg caatgatcta gtccttgaaa 2160  
aaggcgattg ctctcaagct gttattaagg tactaaactg cactttgaag tgaaaatata 2220  
tagaggctct aggtgagctc ttggacactc tggaaataaa tgacttcta aattggcctt 2280  
ctaaattttg atttgttgac gtaaactctg taaatttatt tgtctaatac tcgcgtttgt 2340  
gtttctttta agtccatgtt agtgtttttg atagtttctt cttctcccca attctttttt 2400  
tttttttttg tagtcacttc tcgtttatga gtgacaggat agaactaggt ggccaggcta 2460  
tatctcttgt atgcttggtt cctccgttcc ttggttggcc accaggggaa gcatactgtt 2520  
ttttggttac agttgacctt gtcttcattt tgtaggtcaa gtctatcttt gctttaaaac 2580  
acagaacata aagcttggtt ccaaattttc ctaatgtatt atttttaaaa atcgacttcc 2640  
acaaatcttt gagtaagttg gtaggctttt tgatacattt ttgttaacat aaattttgaa 2700  
aactttatgt agatgtgttg gatgtgacta aggaaaaggg catatttgtc aacaacagga 2760  
attagatttc tgacattcat cgaaatattg acatcagctc tgcattgtta gtaatgagtt 2820  
tgacttcttt ggagttatac ttttctttga aacagcaaat ataattttt gaactgtctt 2880  
tgggcttttt gttggaatag atatgagcat aaacttgcta gtgaccagct attctaaaat 2940  
ggaaaacatt tatcagattg cagtagctca cacctgtagt cccaacactt ggggaggcca 3000  
aggctggagg atctctggag ctcaggagtt ggagaccagc ctgggcaatg tagtcagact 3060  
ctgtctcaac aaaaaataaa aaaattagct gggcatggtg gcatgtgcct gtagtttcag 3120  
ctacgggggg gtctgaggct ggaggatctc tgggaagtca aggctgcagt gagcagtgat 3180  
ctggccattg cactccagcc tgggtgacag agtgagacct tgtctcagaa ataaaaagga 3240  
aaacatctaa ctgttttgct gcatagtctt gctgccatt gggtgagtat tgatattaaa 3300  
atttcctaat tctttttttt tttttttgag acggagtctt gctctgtccc tcaggctgga 3360  
gtgcgcagtg gtgtgatctc agctcactgc aagctccgcc tcccaggttc acgccattct 3420  
cctgcctcag cctccagagt agcagggact acaggcgccc accaactctc ctggctaatt 3480  
ttttgtattt ttagtggaga cggggtttca ccgtgtcagc caggatggtc ttgatctcct 3540  
gacctcgtga tccgcccgtc tcggcctctc atagtgtctg gattacaggc atgtgccacc 3600  
gcgcccggcc ccaaatttct ttattttgtg tttgttttaa tctggaaagg aatctaactg 3660  
gtgtaaagta atttcaaacc ttgttttgcc aacctaaagca gggggacaca gttttctaga 3720  
tatggcagaa aattgagact ttactatttc ctagtggttt tttatgtgtc ttttcattta 3780  
acttaaaagc ttaaggggaa ggaaggcttc cattttggaa tagaaatgat acaacatttt 3840  
tttttttttt aatacgagat ttcactcttg ttgccacgc tggagtgcaa tggcgtgatc 3900  
tgggctcacc gcaacctctg cctcctgggt tcaagcaatt ttctgcctc atcctcctaa 3960  
gtagctggga ttacaggcat gcgccaccat gcctggctaa ttttttgat ttatagtaga 4020  
gacagggttt ctccatgttg atcaggctgg tctggaactc ctgaacgcag gtgatccacc 4080  
cacctcagcc ttccaaatta ctgggattac aggggtgagc caccgtgccc agccaactga 4140  
tgtttgtttt atagcaaat tctttcttag ctgtttaaga cttaagacag gttctttcca 4200

tgactgcaat ttaagagtag tgaattgagt aataaattaa gaattgagag tttgatcctt 4260  
actagttttt atttcctcct cctacttggt tttttctttt ttcttttatt ttttgagacc 4320  
aagtctcact ctgttgccca ggctggagtg cagtggcacg atcttggtc actgcaacct 4380  
ccacctccga ggttcaagtg atttcctgc ctcagcctcc agagtagctg ggattacagg 4440  
tgcccaccac cagcccaac taatttttgt gtttttatta gagatgcggt ttcaccatgt 4500  
tggccaggct ggtctcgaac tctttgcttc aggtgatctc cccgccttgt ccttccaaag 4560  
tgctgggatt acaggcgtga accactgtga ctgcccctcc cccgccttt tttttttttt 4620  
ttgagacgga gtcttgatct gttgcccagg ctggagtgca atggcacaat cttgactcac 4680  
tgcaacctcc atctcccagg ttcaagtgat tctcctgcct cagcctccca agtagttgga 4740  
actacagggt cgtgccacca tgcctggcta atttttgtgt ttttagtaga gacgggggtt 4800  
caccatattg gccaggctgg tcttgaactc ctgacctcag gtgatctgcc cccctcgccc 4860  
tcccaaagtg ctgggattac aggcgtgagc caccatgccc tgctcctacc tcagttttga 4920  
gtgtgtcttt gttcttctct tttactagaa tttgaacaga gaggtggacg tgaaacttaa 4980  
caggcagctt tttttctttt ctttttttat tatagtaaaa taagtaacta tggtagagat 5040  
gcatgaatgg aggaatttga ctttgatttt ttttttttga gacagagtct cgctctttca 5100  
cccaggctgg agtgcatgg catgatctca gctcactgca acctccatct cctgggttca 5160  
agcgtcctc ctgctgcagc ctctgagta gctgggatta cagacgcaca ccaccacacc 5220  
cggctagttt ttgtagtttt agtagagatg aggtttcacc ttgttgcca ggctggctc 5280  
gaactcctga cctcagggtga tccaccaccc ttggcttccc aaagtgtctg gatttcaggc 5340  
gtgagccact ggcgccgacc tttttttttt tttttttttt ttttttgaag tggagtcttt 5400  
ctatgttgcc caggctggag tgcagtggca caatcagctc acacagcctc tgcctcccgg 5460  
gttcaagcag ttctcctgcc tcagcctcct cagtagccgg gattacaggc gtgtgccact 5520  
atgtctggct aattttggta tttttgcaat tttttttttt tttgagatgg agtttttttc 5580  
tcttgttgct caggctgggg tgcaatggca tgatctcgat ctgggtcac ctcaacctcc 5640  
acctctcagg ttcaagcaat tctcctgcct cagcctccc agtagccggg attacaggca 5700  
tgggccacca caccagcta attttgtatt ttttagtagg atagggtttc tccatgttg 5760  
tcaggctggc cgtgaactcc caacctcagg tgatttgctt gccttggcct cccagagtgc 5820  
tgggattata ggcgtgagcc actgcgcagc cctaattttg gtatttttgg tagagatggg 5880  
tttcaccatg ttggccaggc tgggtctgaa ctctgacct caggatgatcc actcacctcg 5940  
gcctcccaaa gtgttgggat tacagggtgt agccactgtg cccggcctga tttttttgtc 6000  
agattttact tatttgcggt atgccagctt gacctattt aggtttgaaa gcaaatggtt 6060  
ggagctaaga ctatctgata tttcctatgc agttcaaagg aagatttaat tctgtcatgc 6120  
cttaciaaaga gtgaatgagg tggatagagc acgttagtct taaaatcctg attcagttct 6180  
tttttttttt tttttttgag acggtgtctc gctctgtgt ccaggctgga gtgcagtgg 6240  
gtaatccggg ctactgcaa gctccgcac ctgggttcat gccgttctc tgcctcagcc 6300  
tcccagtag ctgggactac aggcgcctgc caccacgccc ggctaatttt tttgtatttt 6360  
aagtagagac ggggttccac catgttagcc aggatggct caatctcctg acctcgtgat 6420  
ccggccgct cggcctccca gagtgtctgg attacaggcg tgagccgcca cgctggccc 6480  
tgattcagtt cttataaaat aattaatacc tagattagat cgggtgtagt tggcattgct 6540  
tggtagttag aataccattt gtgtttacac tgaaataaaa agttttacca acttttaaag 6600  
agttaaaaaa aaaaagagtt aaaaacctaa gtgcagccct acacttttaa cttaggcttt 6660  
gttcttacat gtgtgtcca gactgccttt ccatgtgtc tgccgcagat tatgtctgagt 6720  
tgtcattggg ttcttttaat attcagtagt tacagaataa tagggtaaga ggggggatgc 6780  
ttatctatcc tacctctggg tggttcttct ctacataagc aaagcatcac ttattttgaa 6840

[illegible]

ccttggtatg ggtgctgtag tagatttctg gtagctgggg ctgtcagtta actacactcc 9540  
ttgcaacatt ttctctcttg aagggaaatc tgagtggcac actcaaggct gtcagaattc 9600  
ccatacgtgt ttttgtactt aaatacatgt gtgtaattcc agcacttttg gagggtgagg 9660  
cgggaggatc acctgagatc aggagttcga gaccagcctg gccaacatgg cgaaaccccg 9720  
tctctactaa aaatataaaa attagctggg tgtggtcgcg ggtacctgta atcccagcta 9780  
cttgggaggc tgaggcggga gaattgcttg agcccgggag gcggagattg cagtgaagccg 9840  
aggttgtgcc actgcactcc agactggacg acagagctag actccgtctc aaaaaaaaaa 9900  
aaaaagtgat aatatgtttt cttgttattg ttagtgtttt tgtaaattgga ataattctatg 9960  
ctattcatgt acttttatgc tttccaaaca agtacatttc cactagcaag gtaaacaact 10020  
ttgttttcac cttgtcttcg tcatgggtgt agttaggtta ttaatttttt ttaaattgcta 10080  
tcctttaatg gcttatatta gcattttttt cttttctttt cttttctttt tttttttttt 10140  
tttttgaga tggagtttcg ctcttgtttt gttccccagg ctagaaatgc agtgacgcag 10200  
tctcctctca ctgtaacctc cgcctccccg gttcaagtga ttgtcctgcc tcagcctccc 10260  
gtgtagctag gattacaggc atgtgctacc acgcctggct aatttttaaaa aatattttta 10320  
gtagagaagg ggtttcacca tgctggccag gccggttttg aactcctgac ctcaagtgat 10380  
ctcccgcatc ggcctcccaa agtcctagga ttacagacgt gatccactgt gcctggcctc 10440  
ttctnctgtt ttgtagtact ttatatcgtc ttgcctctta tgctggagtg cagtggcatg 10500  
atcacagcac actacagcct cagcctccag ggctcaagtg atcctcctgt ctcaagtttc 10560  
tgagaagctg ggactacagg catgagccag tatgcctgac tgatttttga acttttttga 10620  
gagacggggg tttgccaagt tgcccagact ggtctccaac tcctgggctc aaccagtcct 10680  
tctgctgtgt cctcccaaag tgttgagatt acaggcatga gtcactgtgc ctgtaattaa 10740  
gttttccaat taatgatgag gttaagtgtc ttatgttttt aatttttaat ttttaatttt 10800  
tttaagacct tttttttccc cttttttgag atgagttctt actcttgctg cccaggctgg 10860  
agtgcagtgg cgtgatcata gcgtactgta gccttgaact tctagggctc aagtgatctt 10920  
catacctcag tttctggagt agtttggact acagttgttc accaccacac ccagcaaaga 10980  
atgtgacaaa aagtactaag tgtgttttag ctaagtatcg ataagaaaag agtgtctttt 11040  
tatttttttt ttatttgttt atatgtactt tttgagacag ggtctggctc tgtcatccag 11100  
gctggagtgc agttgtgtaa ttttggtccc ctgcatcctc agcctctcag gctcaagtaa 11160  
tcttcccacc ttggcctccg gagtagctgg gtttatagga tcttgccact atgccagct 11220  
aatatttgta ttttttgtag agatgggggt tcagggtttg ttgggtctta ccctggccca 11280  
ggggtgtctg taaatttttt tttctttttt ttgccactca gtttcctcct gtgaatgtat 11340  
ctttcttttg ctatttttct tttttttccc ccttagggctc ttgctctgtt gccaggtg 11400  
gagtgcggtg gcttaatctc agctcactgc aaccttcac tcctgggctc acatgatcct 11460  
cccacctcag cttccgaggt agctgggact acaggagtgt gccaccacgc ctggctaatt 11520  
tttggttttt tttgtagaga cagggtttca ccatgtttcc taggctgttt tgcgtgtttt 11580  
ctataggggtg ttgggtttta taggttttg ttttttgat ggatttggtg gagttctttt 11640  
tatttatata tttggatatt ctttgtaga attgcacata tgttttttgt tttttcttta 11700  
atattatgtg tgttgccggg aggaggattg agtttatttg actaggaagg gataaaaaata 11760  
cattcctgac tggagactgt actcagagat tggctctggg gtatacccct gatttctaag 11820  
atgaatgtta ctgagaattg acaatttttt ttggtgattg ttgtgtttcc actaagttat 11880  
tcatctcatt ttggcctgct attagctagt tgacccaaat cacagtgtct gatgacttga 11940  
aaagctctga ttttaatttt gcctagtata tagttatagt agcatatagg ttaaaggtta 12000  
aagttacagc tttgatccta taatggtcag ttagttttcc acgaaagggt aaaatgctat 12060  
agactaaaac taacagctgt cttagggatt tgccactcct tataaggcaa tgggtagtgt 12120

gtggataggg aggtacaact tgtcatcact aacaaaaccc tcgaaagaat gatctatcca 12180  
ggttgcttac tctgtgccag gctagtttta acacacatca aatcatttga ccttcacaac 12240  
agtcatatga tgtaaagtta ctatctccat tttccagatg aggaaacaga ggcattgaga 12300  
ggcttagtct tatggttgaa cctaataact tgccgtggta atccagtccg agaggccctc 12360  
agctgtaaga ggcaccttta ttttatgttt cagtaagaaa ggaaaaggat caacaagata 12420  
gactgttaat ttttaagtatt ataagaattc tgatttataa gtataatcag aattcaattt 12480  
agtgtathtt agagaggggc agccagaatc ctctttaaga gaaaacactt aggctgggtg 12540  
cagttgctca ctctgtaat cccagcactt tgggaggctg aggcagggtg atctcccaag 12600  
gtcaggaatt caagatcagc ctggccaaaa tggtgaaacc ctgtctctac taaaaatata 12660  
aaaaattagc caggctataa tcccagcatt ttgggaggct gaggcgcgag aattgcctga 12720  
acctgggagg tggagctaca gtgagccgag atcgtgccac tgcactccag cctgggtgac 12780  
agagcaatat tccatctcaa aaaaaaaaaa aaaaaaaaaa ggaaaagaaa aaacacttag 12840  
gagcaagact ttattggatc cattgattag ttgtttccat gtggccccag gtgttgggga 12900  
attttatgtt tcgggttgcc agagccaact tgtagtccag ttacattcct cttcttcctg 12960  
gcagtgagaa caccggtgaa atgggagggt gttagcttgg ttgcctgggg acaaatggga 13020  
ctgagttgct ttattcctgc atgtatgttg aaatagtcac cttcacaact tagaatatag 13080  
ttggagtttt ttttagaaga gccatttatt ttgatggtgt gactgaaggc tatacatata 13140  
gtcatgtatt gcaaaacaaa tgtcattttg gtcaaggaca gtggtcccat aagattataa 13200  
tggaactaaa aaatttctgt cgcctagtaa cttcaccttg tctatagtgc aacagcgtgt 13260  
agcatfactt aggtgtttgt gtggtgttgg tgtaaacaaa cctactgcac tgccagtctt 13320  
acaaaatcta gcacatggag ttatgtatag tacatagtac ttggtaatga caataactgt 13380  
attactggtt tgtggattta ctatgctata ctttgtatgg ttattttaga gtgtattcct 13440  
acttataaaa attatcagtt tgctgtaaaa cagcctcagg caggtccttc aggaggattt 13500  
ccagaaggaa ggcattgtta ctctagaata tgacacctcc atgggtctta ttgcctctga 13560  
agaccttcca gtgggacaag gaaggatagg agttggaaga tggatgattt gatgatcctg 13620  
actgtaggct aggccaatgt gtgtgtatht gtggtttttt ttgtttttgt ttttgaaatg 13680  
gagtatcgct ctgttgccac ggctggagta cagtggcatg atctcggctc actgcaacct 13740  
ctgcctccct gcctccagtg attatcctgc ctcagcctcg tgaatagctg ggattacagg 13800  
tgcgcgccac catgcctggc taatttttgt atttttagta gaaatagggg ttcatcatat 13860  
tgggcaggct ggccttgaaac tcccagacct aagtgatccg cctgcttcgg cctccgaaag 13920  
tgctgggatt acaggcatga gccaccgtgc ccggcctaatt ttttgtattt ttagtagaga 13980  
cggggttttg ccatgtaggc caggctggtc ttgaactcct gaactcaggt gatttgcttg 14040  
tcttgccctc ccacagtgt gggattacag gtgtgagcca ctgcacctga ctgtatttac 14100  
accatactc tccctgaagg ttgtagtctc tgccctgctt tacttttact ggcataagaag 14160  
ctgctgggct tgggtgtctg ctttcaaact tagcgtggat ataggagatt cagcggggag 14220  
gaagagaaga gtaggtgctt tactagtttt gatcttactc agtaccagag agtgttcttg 14280  
gagctagtgg tgtcatgtat gtctgaattc tttgaggggt gtagcgtagt tttttgaacc 14340  
accaaatacag gttttaagtt tttttttttt ttttggaggg gagatagggg ctcaccctgt 14400  
ccccaggct ggagtgcagt ggcgggaaca tggccactg catgcagcct tgacttcttg 14460  
ggcaccagtg atcctcctgc ctcagcctcc caggtagctg ggattacagg tgtgaggcac 14520  
tgcaacctggc tgttaagtat tatctagtat aaactcgtca gagctaaata ggggctgaat 14580  
tttctaagaa tatgtgcttg gtttgggtct tttcttgaat aggcctttgt ttttgttttt 14640  
ttgatttttt tgggttttgt gttagttttt tttttttttt ttgagacgaa gtctcactct 14700  
gtcgcccagg ctggagtgc gtggtgtgat cttagctcac tgcagcctct gcctcccga 14760



ttcaagtggg tctcctgcct cagcctccca agtagctggg attataggca tgcctccacca 14820  
cgtctggctg attttgtatt ttttagtagag acgggggttt tccatgttg tcaaggctgg 14880  
ctcgaacttc taaccttagg tgatccgtct gccttggcct cccaaagtgc tgggattata 14940  
ggcgtgagcc accgcgcccc gctgagtagg cattttttta tggacatttg ataaggacca 15000  
agtgcactg tatatcaaat ggaaatctag ggaaaaattg tcttttaaat tgcagttaaa 15060  
agctgattat ccctattgtc tcttgctttc cttataatga atttgataa attggagatg 15120  
cacatcttgc atagatgtgt tttctttttt ttatataaag tgggtgcaagt cacatcacia 15180  
aattgactat tttttggcca ggtgtggtga ctcatgcgtg taatcccagt gctttgggaa 15240  
gctgaggcaa gtgggtcacc tgaggtcagg agtttgagac cagccaggcc aatatggtga 15300  
aaacctgtct ctactaaaaa tagaaaaaag ctagccaggc gtggttgctc atgcctgtaa 15360  
tcccagcact ttgagaggct gaggtgggca gatcacgagg tcaggagttt gagaccaggc 15420  
tggccaacat ggtaaaaccc catatctact aaaagtataa aaattagccg ggtgtggtgg 15480  
cacctgcctt taatcccagc tactcaggag gctgaggcag gagaatcgct tgaaccggg 15540  
aggtggaggc tgcagtgagc tgagatcggt ccactgcaca ctagcctggg caacagagcg 15600  
agactctgtc tcaagaaaaa ccacaaagta caaaaaatta gccagggtgtg gcggtgcacg 15660  
cctctaattc cagctacttg ggaggctgag gcaggagaat tggttgaacc ggggaggcag 15720  
aggttgccat cagccgagat cacgctactg cactcaagcc cgggcgaaac agagagactc 15780  
catctcaaaa aaaaaaacia caaaattaac cgtttttaca tgaacaattc agtggcattc 15840  
agtgcactcg cattgttgtg gagccactgc cttgtctag ttccgaaaca ttttcatcac 15900  
cctaaaaaga aaatctcaca tgtgttagaa tgaagaatga gttacttctt attctccatt 15960  
ctcagtagca ggcaaccact aacctgcttt ttgtttctgg attacttatt ctggaacttt 16020  
cacgtaaatg ggtatgtgac cttcatgtct ggcttctatc acttagtgta atgttttcaa 16080  
ggttcattca tgttgaagct tgagtcagta ttggtacttt ctgtgcttca ttgcttttgt 16140  
tttgtgttgt tgtttttttt gttttgcctt gttttgttt tttgagatgg agtcttgctc 16200  
tgtcgtccag gctgaagggc agtggcgtga tctcaactca ttgcaacctc tgcctccctc 16260  
gttcaagcga ttctcctgcc tcagcctccc aagtagctgg gattataggt gcgcaccacc 16320  
atgcctggct gatttttgta ttttttagtag aaatgggggt tcaccatttt ggccaggctg 16380  
gtcttgagct cccgacctca ggtgatacac ctgtctcggc ctcccaaagt gctggggtta 16440  
cagggtgctg gcctaatttt aaaatttttt ttttgtggag agacgggggt tgtttatgtt 16500  
ggccaggctg gtctctaact cctgacctca agcactcctc ctgcctcagc ctcccaaat 16560  
gctgagctta taggcatgag ccactacacc tggctcattc atttggtgat ggacatttag 16620  
cttggttgta ccttttgatt attgtgaacc gtgctgttat gtacattcat gtacaggat 16680  
ttatctgttt tcatcctttt aggggtatat atctattagt ggaattgctg ggttatggag 16740  
taattctgtg cttcactttt tttttttttt tttttttttt aaatttttat tttgagacag 16800  
gctcttgctc tgttgcccag gctgggggtga cagtggatg atctcagctc actgcaacct 16860  
ctgcctcccg ggttcaagca attctcctgc ctcagcctcc tgagtagctg gggttacatg 16920  
tgcatgccac tacacctggc taatttttgt atttttagta gagatggaga aacatgttg 16980  
ccaggctcgt cttgaactcc cgacctcagg tgatccgctt gcctcggcct ctcaaagtgc 17040  
tgggattaca gatgtgagcc actgtgcctg gtctgtgctt aactttttga ggaaccatta 17100  
aattgttttt cacagtagct taaccatttt atactccatg attaacgtat gagggtttca 17160  
atattctact ttttattttc tgttttttga gatggagtct cactctgttg tccaggctgg 17220  
agtgcattgg tgcgatctcg gctcactgca gtttccgctt tccaggttca agtgattctc 17280  
ctgcctcagc ttctgagaa gatgggattg taagcatgta ccaccaagtg tggctaattt 17340  
tttttttgta ttttttagta gagacagggg ttcaccgtgt tggccaggct gatcaggctg 17400

gtcctgacct caggtgatct gcctgtctcg gcctcccaaa gtgctgggat tacaggcgtg 17460  
aaaatgctac tgatgacagt gcagagagtc ctgagatgct tagagtagtg gagttactcg 17520  
atccttccct gtggtggagg gttgggagtt gaagaaacca ggaagtccta tatgaaatgg 17580  
tcctttaagg ccgggtgcag tggctcacc ctgtaatccc agcacttttg gaggccgagg 17640  
caggcagatc acgaggtcaa gagattgagc ccaccctgga caacatgaca acatggtgaa 17700  
accctgtctc tactaaacat acaaaaatta gctgggagta gttccagcta ctcgggaggc 17760  
tgaggcagga gaatcgcttg aaccctggag gtggagggtg cagtgagccg agattgcgcc 17820  
attgcgctcc agcctgggca acaagagcga aactccatct caaaaaaaaa aaaaagagaa 17880  
atcgtccttt aagtcaagcc ttaaaacgta ggaattacct agttaatttg aatattaata 17940  
ttatatgata tataagctgt acatgttata aaaattatct tgaaaagttt aatctttaaa 18000  
atcttagttt agattttcct ttagttatc tagagctgtg ctgtccaata gtgtagccac 18060  
tagctacata taactattga aatttaaatt aattaaaatt aaataaaatt aaaaattcag 18120  
tccttctggt aactaggca catttttagat attcagccat catatatagc tagtaggtgc 18180  
catattggac agctcagaat agagtatttt tatcctccca gcaagttcag ttgggtggca 18240  
atgatctaga cattttgatg aaatgaaagc ttcattatta ttgctattat tattattatt 18300  
tttgtgtgtg tgtgacagag tgtcgtctg tccccaggc tggagtgcag tggcgccatc 18360  
tcagcttact gcaagctcgc ccaccgcgt tcacaccatt ctcctgcctt agcctcctga 18420  
gtagctggga ctgtaggcgc ccaccaccac gcccggttaa ttttttagta gagacgaggt 18480  
ttcaccgtat tagccaggat ggtctcaatc tcctgacctc atgatccacc cgcctcagcc 18540  
tcccaaagtg cagggattac aggcgtgagc caccgtgccc agcccaaaag cttcgttatt 18600  
attaattttt ataattcaga cgttttgctt cttttgtcaa gtgcatgaaa tttgagatgg 18660  
gtacagctga gaaatgtatg atggctgtgt gctgaattcc tctaggggtg tatttgttta 18720  
aatattgcca ataaggtgtt caaaataagg ttatttgaaa gagcaagttg aaatggaaag 18780  
cttaggagag cttagttttt tgtttgtttg ttttttgag atggagtttc gctcttggtg 18840  
cccagactgg agtggaatgg tgtgatcttg gctcactgca gcctccgcc ccacaccatt 18900  
caggcgattc tcctgtctca gcctcctgag tagctgtgat tacagggtgt caccaccacg 18960  
cctggctaatt tttttgtatt gttagtagag atagggtttc accatgttgg ccaggctgtt 19020  
ctctcctgac ctctgggtgat cctcccactt tggcctccca aagtgtaggg attacaggca 19080  
tgagccacca tgccggcct cagcctatag ttcttttaat gcccttgtct actaattctt 19140  
tcactgtgtg catttctggg tcagtttcag ttgcttgatt ctttttttct ttcctctttt 19200  
tgggttgtct tttccacctt ctttgcttat ctgttgattt ttggatgcca gacatcatga 19260  
atcttacttt gttggaggct ggatattttt gtatttctat aaatattctt gagttttgtt 19320  
ctgagatgtg gttaaaatac ttaaaaatag tttgatgaag tcttgctttt aagctctgtt 19380  
aggtgagatc aaaaccattt tagtgtaggg ctaagtattt ccactattg agtcaaaatc 19440  
cttttgggga ttctgtgtga tagcccatgg actatgtggt tttccactct ggctgtgagg 19500  
aactggccct ctctctgttc ccatgtgagc cttgtggatt gttccatttg attcttttg 19560  
gtattttatt tatattttta gagaaggtgt cttgctctgt ccctcaggct ggagtgcagt 19620  
tttgtgatca tagctccttg cagcctcaaa ctcctgggct caagccatgc accccatata 19680  
gctggggcta taccatgcct ggttattttt attgttttag agatagggcc tctactgtgtt 19740  
gcccaggctg gccttgaaga ctccagggtt caagcgatca tccttctca gcctccccag 19800  
tagctgggat tacaggattt tgccatcaca tctggctaag ggggtgtgga accagggaca 19860  
aagaccaa atacatatttca taatatacta cacaaggtaa atctggttca tgtcactcta 19920  
ccttgactgg aagcataagt atagattttg ccatgttgcc caggctgggtc ttgagctcct 19980  
agcctcaagc ggtccctctt tcccaaacct tggcctccca aagggtgctag gattgcaggc 20040

atgagccact gcacttcttg agtagctggg attacaggtg cgcgccacca cgcccgttaa 20100  
tttgttttgg atttttagta gagacggggt tttgggccag gctggctctg aactcctgct 20160  
cttaagcgat ctgcccgcct cagcctccca aagtgtctggg attacaggtg tgagccacca 20220  
cgcccgggtct gatttttgta tttttttag ggatgggggt ttcccatgt taccagggt 20280  
gctcttgaac tcttggttc aagcaatcca cctgtctcgg cctcccaaag tgggtgggatt 20340  
tcaggagtaa gccactgcac ccagccttgt tcatttcaat attcctgatg aagtactcca 20400  
tctgatctca tttgctctta gaaatctgct tgctgggttac cctgtgcagt ggctcacact 20460  
tgtaatccca gcactttggg agactgaggt aggaggattg ctgtatgcca ggagctagag 20520  
atcagcttgg gcaacatagc aagacctgt ctctacgtgc acctgtatgc ctggctactt 20580  
gggagggtga gatgggagga ttgcttgaac ccatgggttt gaggtctgta tgaggatga 20640  
tcacaccact gcatttttagc ctgagagaca ggagacagta tctcttagca aaaaaaaaaa 20700  
aaaagaaaaa acaaacttga ctaccgtatt gatgattcta gtccagaatt ttccaaagga 20760  
gtataggtgg tttttttggt tgttgttgtt gtttgttttg ttttttgaga tgggtgcgagt 20820  
ctcgcttttt ttgttttgtt ttgttttttt gagatggagt cttgctctgt cgcccacgct 20880  
ggaatgcagt ggcacaatct cggctcattg caaccttcgc ctcccgggtt caagcagttc 20940  
ttgtgcctca gcctcccag tagctgggac tacaggcggt cgccaccacg cctggctaag 21000  
ttttgtattt ttggtagagt tgggggttca ccgtgttggc ctggctggta tcaaactcat 21060  
gacctcaggt ggtccgccat tctcagcctc ccaaagtttt ggaattacag gtgtgagccc 21120  
tcgcacctgg cttttttttt tcttttttaa acatatttat ttatcatttt tttttttttt 21180  
tgagacggag tctcgttctg tcgcccaggc gggagtgtt tggcgcgatc tctgctcact 21240  
gcaagctccg ctttcgggt ttacgccatt ctctgcctc agcctcccga gtagctggga 21300  
cgacaggcgc ccgccactgc gcccggctaa ttttttgat tttttggaga gacgggggtt 21360  
caccatggtc tcgatctcct gacctcgtga tccgcccgc tcggccccc aaagggtgg 21420  
gataaaaggc atgagccacc gcgccccgcc aacctttttt ttttttttaa agagggtggag 21480  
tataactatg ttgcccaggc tgatcttgaa ctctggcct caagcagtcc tctacctgg 21540  
cctcaciaag tgctgggatt acaggagtga accaccgcgc ctggctgaga taggttgttt 21600  
tttgaattaa ctattctttt tttttttttt tttttttttt gagacagagt ttcgctgttg 21660  
ttgcccaggc tggagtgcag tgggtgcaat atctaggctc actgcaacct ctgcctccca 21720  
ggtttaaggg attcgcctgc ctcagcttcc caagcagctg ggattacagg catgtgccac 21780  
tacaccggc tgattttgta tttttgtag agacggggtt tctccatgtt ggtcaggctg 21840  
gtcttgagtt cccaacctca ggtgatctac cctccttggc ctcccaacgt gctgggatta 21900  
taggcgtgag ccaactgcacc cagccatgtt ttaagattt ttaaactct ggctcttttt 21960  
tttttttttt tttgagacgg agtctcgtt tgtcacctag gctggagtcc agtggcgcca 22020  
tctcggtca ctgcaagctc cgcttcttg attcactcca ttctctgccc tcagcccccc 22080  
gagtagctgg gactacaggc acccgccacc atgcccggct aattttttgc atttttagta 22140  
gagacggggt ttcaccacgt tagccagcat ggtctcgatc tcttgacctc gtgatccgcc 22200  
cgctcggcc tcccaaagtg ctgggattac aagcatgagc cactgcaccc agcccttctg 22260  
gctcttttta aatgtcagat attgataact ccagactga attaagattt tatatgtcag 22320  
atgattaaact atcattttga gttgttgctt agttctctgc ttgcttggca acagggtcagt 22380  
ttccatggta ttgccatttt tgtaccgcac tcttagtgga gctgagagg tgggggtgag 22440  
gctacagggc cgaactctat aaactagaat agctatactt ttatccagt tgggtgataa 22500  
aaggggtga gatacggctc aggaaaagca tataaaaaac aaaaataaaa ataatttctg 22560  
aataattttt tttttttttt gagacggagt ctcgctctgt cgcccaggct ggagtgcagt 22620  
ggcgtggtgt cggctcactg caagctccac ctcccgggtt cataccattc tctgcctca 22680

gcctcccgag tagctgggag taaaggcacg tgccaccatg cccagctaatt tttttgtatt 22740  
tttagtagag acgggggtttc accatgttgg ccaggatggt ctcgatctct tgacctcgtg 22800  
atgtgcccgc cttggcctcc caaagtgtg ggataacagg cgtgagccat agtgcccggc 22860  
cccccgccc ccaccttttt ttgagacaga gtcttattct caccagcct ggagtgcagt 22920  
gtttacgac ttggctcact gcaacctctt cctcctgggc tcaagtgatt cttctgcttc 22980  
agcctcccaa gtagctggaa ctacaggtgt atgtcgtcat gcctggctaa attttttttt 23040  
ttaatatatt tttagtagaga cgggggtttca ccatgttgct ccagctggct tcgaaccctt 23100  
gggctcaagc aatccaccca tegtggcctc ctgcagtgtt ggggttatag gcatgagcca 23160  
ccttggcctg cataattctt tttttttttt ttttttgaga tggagtctcg ctcttgctgc 23220  
tcaggctgga gtgcaatggt gcgatctcgg ctcaccgcaa cctccacctc ctggattcaa 23280  
gcaattctcc tgccctcagc tcccaagtag ctgggattac aggtgtgcac caccatgcct 23340  
agctaatttt gtatttttag tagagacagg gtttctccat gttggtcagg ctggtctcca 23400  
actcccgacc tcagattatc tgcccaacct tggcctccca aagtgtcgtt attacaggtg 23460  
tgagccacca cgcctggcca ttaattcttt ttaagaaag agtttcattg ctattaaaca 23520  
agtttgaaaa tcacagtttc tgcaaaagta gaaaatacaa acttgggttt ctaccactac 23580  
actttcacia catgcttttg actccagatt tgagggggga tttctccca acaggaggta 23640  
ggccatcagt tctgcagtgg gcagcagctg ggcatcctct aattgaattc agttctgaca 23700  
ctgtctacac taccgctta gagatggatg gtgacacata aacacaggtt gagnactcag 23760  
acctataaca tatattgtac gtaaattgtc atttattttg tctgtggttc tgaccagcca 23820  
gctgcaaat tcaagagttc ctgcagatac ctcctttact tcaattactt tgctagagtg 23880  
acttacagaa ctcagggaaa tgtgtttatc catttattac aaaagataca tgtgtatatg 23940  
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tatgtgtgtg tgtgtatata 24000  
tatattttaa ttttatttga gttagggtct tccccagtt gccagggtg gagtgcagtg 24060  
gtgcgatcac agctcactgc agcttcaact tcttggactc aggctatcct cccatctcag 24120  
cctcctgagt aggtgaaact atatacacac agcaccatgc ccagctaatt aaattttttt 24180  
ttggtagaga tgggtctctg ctgtattgcc caggctgggc ttgaactcct gggctcaagc 24240  
agtcctccgg ccttggattc ccaaagtgtc gcaattacag gtgtgagtca tcatgtttgg 24300  
cctacaaagg atatttggaa ggatgcaaat aaacagtcag gtgaagagat acatataggg 24360  
ccaggattga aatggtccct agcactgttt tttctgtctt cttggagttg ggatgggcca 24420  
ccctccctc acatggctgt gcttctcttt actcctgcaa tccccatgt gtttggctcc 24480  
ctacaagcca tggtcagctc cctgcaagct ctctgaaccc aatcctttca ggtttttatg 24540  
aaggcctcat tacgtaggga tgactgatta aatcttttgg ccattggtga tgaattaaaa 24600  
gttcagtcct tctccctcc ttggagggtg aggtgggagt tgaaaccatt tgcatccta 24660  
agctaacaaa cggttgccag ctattggtca actcattggc atacaaaaag acacattact 24720  
ttgaagatac cgaggatttt aggagttgaa gggccaggaa acaggaaggc caaatatata 24780  
tttcacaata tcacaatatg ttattaagag caaatagtga tagaaaagtg aaagtgatga 24840  
tagcagaaat gtaaagtgtg ggttctataa acagtgcaga tgagaacaaa gctaacagtt 24900  
atcaggcagt ctaaatgcat gcagtttttt accttagaca cattcgttcg ttgactgttt 24960  
aattgtaaag aaaaatcaat ttaagaacat gtatgaaatt gcatttatac tctggaaaaa 25020  
tgagatgtaa gtaggtattt tgtatttttt agcgtttcaa gagcataatt ccccttatgg 25080  
tatgtctgtt gccttgcttt cacacattcc acttgtgtac atgttttttg gaactcatta 25140  
tgtaagaaag taatggactt cttacacttc tgttaggtaa aaccatagta attggctggg 25200  
catgatggca tgggggtggga ggatcacttg aggacaagag tttgagcttg cagtacactg 25260  
atctttgctg tgaatagtca ctgcactcca gccggggcaa cgaagacact gtctctttct 25320

tttttttttt tttttttttt tgatggagtc ttgctctgtc gcccaggctg gagtgcagtg 25380  
gcacagactt ggctcactgc aacctccact tcccagggtc aagggattct cctgcctcag 25440  
gctcccaagt agctgggact acagggtgcct gccaccatac ctggctaatt tttgtatttt 25500  
tagtagagac ggggtttcac catattggcc agactggtct cgaactcctg accttgtgat 25560  
ctgcctgcct cggcttccca cagtccctggg attacaggcg tgagccaccg tgcctggccc 25620  
aagactctat ctcaaataaa aaagaacaca gtaatttttc tcttttatgg gatactacac 25680  
ttacataagt ttcttttttt tttctttttt tttttttttt gtgagacaga gtcttgcctt 25740  
tcccctgcc aaggctggagt gagtggcatg atctcagtca ctgcaacctc cgcttcctgg 25800  
gttcaagtga ttcccgctgc tcagccctct gagtagctgg gattacaggc gtgccccacc 25860  
acgtctggct aatttttgta tttttagtag agatggggtc tcaccatgtt tcccaggct 25920  
gttctcaaac tctgagctc aggtggatcc cccctgcctc ggccctccaa agtggtggga 25980  
ttacagtcgt gagccactgt gcctgtctgg gatgtttgcc atatitgtt catcagtata 26040  
tatttctttg cttgggttga gtacaggga tgatgcctgt aatcccagca cttaggagg 26100  
ccgagggtgg aggattactg gaacccagga agttgaggct gcagaccaac ctaggcaaca 26160  
gagtgagaac atgtcttcag ggggaaaaaa aaagcgctgg gcatgggcat atacctatag 26220  
tctcagccac cctggaggat gaggtgagag gatcgcttga gcccaggaat ttgaggctgc 26280  
catgagccgt catcatgcc atgccaatgt actccagcct gggcaagaaa gtcgaccctg 26340  
tctcaaaact aaactaaaca aatttctctg gctgaagtat agtaatttgc ttttaagtga 26400  
cgtttgta ttttagaaaa taactttgta tatcagacat catttatggg acttaccgtt 26460  
ttccatggtc ataaaatacc tagtctagt tgataaatgc cagggtgatag aggtatgcct 26520  
ggggcataaa cctaggggct tgggtgggatg ggggtgagatg gttgaaatag tatgtagaag 26580  
gaaaggcttt ccagagttaa ctcttagggg ggctcttgaa gggcaagtga aggaaagaca 26640  
tttcaggctg agggaaagaca cgtttagatg gagtcctgtg gatggagagt gctggacttg 26700  
tttgcgaaagt caggagtagt ttgatatgat cagatgctta gggagggtgat tggtaaagt 26760  
gtggaagggt agattgtgga acaggtaggc atggacccta tcacaagcgt cctggcttgt 26820  
gtatctagct aaaggatctg tctgtctgtc tgtctgtctt tatatttttt gagacggagt 26880  
ttcgctcttg ttgccaggc tggagtgcaa tgatgcaatc ttggttcatt gcaacctccg 26940  
cctcccagggt tcaagtgatt ctccctgcct agccttctaa gtagctggga ttgcaggcgt 27000  
gcactacacg cccagctaac tttttatttt tagtagagtt ggggtttcac catgttggtt 27060  
aggctgggtc tgaactccta acctcagggt attcacctcc ctcagcctcc caaaatgctg 27120  
agattacaga tgtgagccac cccacctggc ccatgcctct atctatctat ctgtctgtct 27180  
gtctatctat ctattctatc taatcttttt tttttttttt tttttttttg gtagcaggtt 27240  
cttgctctgt tgcccaggct ggactgtagt ggcgtgatct tgccctactg cagcctctgc 27300  
ctcccgggtt caagcgatct tctgcctca gcctccctgg tagctgggac tacagatgtg 27360  
tgccaccatg cctggcaagt ttttatattt ttggtagaga tggggtttca ctatgttggc 27420  
caggctgatc tcaaactcct gacctcagggt gatctgccc cctcagcctc ccaaagtgc 27480  
gggattacat gcgtgagcca ctgtgcctgg cctgttaagt attaccataa actcttctcc 27540  
tatctgtctt gtaagttatg tacacctcat ctatgttctt gatgtagctt gttacttagt 27600  
ctgttatagt aataatctct ttaattatta gcttttatgt cttctccatt gtccactgac 27660  
agccataact gcgtatatct ttttgatac ctgtctacag accagccatc ctaggttgaa 27720  
gaatagaatt acttctcatt gcttccacag ttccctgtct cctttaaatc atcatgtata 27780  
acacaaatta tacagtagct ttcttgtaaa tctcctgctt ctgtatttta tatctgttag 27840  
gctgggtgca gtgactcact tctgtaatcc cagcactttg ggaggccaag gtgggaggat 27900  
tgcttaaggc caggagtttg agaccagcct gggcaaaaata gggagacacc ccgtcaccac 27960

acacttatac acacacacac acaccccccc acaccacca tgaaaaaaat tagtcgcggc 28020  
ggggtgcggt ggctcacgcc tgtaatccca gcactttggg aggccaaggc aggcagatca 28080  
catgaggctg ggagttcaat accagcctga ccaacatgga gaaaccccat ctctactaaa 28140  
aatacaaaac tatctgggcg tgggtgcaca tgctgtaat ccagctacc ctggagtctg 28200  
aggcaggaga atcacttgaa cccgggaggc agaggttgtg gtgagccgag atcgtgccgt 28260  
tgtacttcag catcaacaag agcgaaaccg tctcacaaaa aaaattagtc gggcacaatg 28320  
gtatgcatct gtggtcacag ctatttggga gactgagcta ggaagattgc ttgagctcag 28380  
gaattcaagg ctgagtgagc tctgattgtg gcactgcact ccatcccggg ccacagagac 28440  
tctgtttcta ataaataaat aaaatgtaa ttagctgttc ctctgtggct tacaaccttc 28500  
cagtggctcc catttcactt agagtaaaag tgaaagccct caccgtggtc ccctcctttt 28560  
ttgctgctcc attactcttt ctttatctcc ttcacttcat tcagatcatt gctcaataag 28620  
gcctctccta acctacctat ctgcaagtat ctctagaata tgacttaaaa acaatctaaa 28680  
cacagatgtc acaactaaaa aaaattaata cttagtcctt agtgtcatta aatttctggt 28740  
cacctattgt taaatagttg ctttgtttga aggtcactgc aacctgcatt tcctgagccc 28800  
aagctatcct cctgtttcag cctcccgagt agcagagact acaggtgtgc accaccatgc 28860  
ccagctagtt ttttagaatt tttttagag acaggatcta actgcgttgc ctaggctggt 28920  
cttgaactcc tggcctcaag tgatcctctc accttggcct ccagtatgc tgggattaca 28980  
ggcacaagcc actacatcta gacacgaatt tctgatttaa ataattcttt gtaagaacac 29040  
ttcttaggag gcatttgaat ggataactgt ctttaactgtc ttgcacacca gtctttgtct 29100  
tttttttttt tttttttttt tttttgagaa aaggtcctgc cctgtcacc aagctggagt 29160  
gcactggtgc aatcacagct tactgcagcc ttgaactcct gggctcaa at gatcctccca 29220  
ccttggcctc caaagtgttt ggattacagg catgagccac tgagcccagc ctgaggttgt 29280  
ctttctcctg ctttactatt tcattttttt ctttctgtct tctagcgtag tgtaaattta 29340  
catatatatt aatgtctgta ctagaatata agctcaacaa gggtagggct ctttgtgtgt 29400  
agacattgct cagtacatag ttggcacgaa ataaaatcac ttaaataaat gaatgagtga 29460  
aatacaaaagg cgaatttga ctgtaaaaca gtcttgttgg agaaggtata tggggaatag 29520  
gggaaagaga gggcctcttt tcgccctcct acattgatac agatagatct cagttggtct 29580  
ctgatcttgt ttgtaggat tttgttggat gaatgcaagg tgggatggtc ttcagattgt 29640  
accaatttag ctggcattgc taaccaactg ttggaatctc tgaaaataaa agatcttgaa 29700  
attcctcccc ctctccccgc aaagagaaat acgaaggcag acaactgggt aaattgtcct 29760  
accctaaact gccatccaca gaaaagtaac attttgtttt atttgattaa ctgtgcttga 29820  
caacattaga aacagtggaa aatcatctgg gacttgggca ggtagaaact ccagaggtag 29880  
gactggagga ggggctgtgt aacctctctt tcttactctt aagaataacc tttttatcta 29940  
cccagattt attggctcct taaaatcata actaaaacct gtagcctctt tcagcagaaa 30000  
gcaatgctta gagtaagact tctactacac tgccagcccg aaggcttgaa cagaaggcaa 30060  
gtggaagccc taaaactttg gctgttcctg gcacgattcc agtcccactc tccctaccct 30120  
caccacagc ttccccatca ctgtctgctt gggaaccgtg agcattgttc tcactctgtg 30180  
cttctttctg agttatcagg cagccggaag gccagattcc cttgtcttcc ctcttttcat 30240  
ggactctgca ttttcttttc tgatcctgtt tttcaccttg atcttcttgg aacttttccc 30300  
tgagcccttt taaactcacg gtatatcagc aaaattcccc taatcttcag tttcttctgt 30360  
gatttccgcc ccccgcccca cacattctta ttctgactga aaataggcca tctcctgatg 30420  
aactgctc cctgcagccc tccgaaagag tacttgctg cccctccatc ccttttgtgt 30480  
tactaggctt cacagtagca tgctctctt tctttgttg ccatttcttt acttttcttc 30540  
tcgcctccct aaaaacacct ctgaatgtga tgtcatgagt ttgtactatg cgctcctgat 30600

ttttgctgct taatccagtg tgctgtggag gattgaacct cttatgatgg agttcccctc 30660  
tttaactcta gtaatgcttc ttgccttaaa gtctgctttg tctaatatca gtatagctat 30720  
gccagttttc tttttgttcg tgtttgaatg gcatcttttt ctgtcttttt tatttttcaac 30780  
ctttctttat tcttgatgtc ttggttatgt ctgaacagggt tttcatccac atcttaaaag 30840  
cacatctttg cttttaactt gcatttagtt tcattcacag tttcatttaa tgtatttatt 30900  
gatatatctg tatttagatc taactcagag atttctattt gaccacctg ttctgtgtgg 30960  
gtttgttttg ttagtccttt tgatcttcct ttgcattgat ttagtattta ttgttattct 31020  
tccctcttcc ttagcttggg aattgtgtgc tatttgga aaatactatt ctctgagtag 31080  
ttatcctaga gataacaatt tacttccttt atttatttat tatttattta tttatttatt 31140  
tatttattta tttattttga gacggagtct cgctctgtcg cccaggctgg agtgcaatgg 31200  
cgcgatcttg gctcactgca agctccgct cctgggttca cgccattctc ctgcctcagc 31260  
ctcccgagta gctgggatta taggcgcca ccaccacgcc tggctaattt tttgtatttt 31320  
tagtagagac agggtttcgc catgttagcc aggatggctc tgatcccctg atctcctgat 31380  
ccaccacact cggcctccca aagtgtgag attacaggcg tgagccacag cgctggcca 31440  
acttccttaa tttattaatc tcatgttgac ttggcttctc aagaaggctt aagaatccta 31500  
aagggaagct ggggtcgggtg gctcacgct gtaatcccag cagtttgga ggccgaggca 31560  
ggcgatcat gaagtcagga gatcgagacc atcctggcta acacggtgaa acccatctct 31620  
actaaaaaaa atacaaaaca ttagctgggc atgggtggcg gcacctgtag tcccagctac 31680  
ttgggaggct gaggcgggtg gatcatgagg tgaggagatc gagaccatcc tggctaacat 31740  
ggtgaacccc atctctacta aaaaaaatac aaacattag ctgggcatgg tggcgggcac 31800  
ctgtagtccc agctacttgg gaggtgagg caggagaatg acatgaacct gggaggcgga 31860  
gcttgcaagt agctgaaatt gcgccactgc actccagcct gggcgacaga gggagactcc 31920  
gtctcacata aataaataaa taataaaata aggtgtgca tgggtggctca cggctgtaat 31980  
cccagcactg tgggaggccg aagtgggcgg atcacctgac gtcaggagt caagaccagc 32040  
ctggccaaca tgggtgaaacc tacctctaca aaaaatatac aaaaattagc tgggcgtggt 32100  
gccacccacc tgtaatccca gctacttggg aggccttaggc agagaatctc ttgaacccag 32160  
gaggcagagg ttacagtgag ccaagatcat gccaaactgca ctccagcctg ggcacagtc 32220  
taaaataaat aaataaataa aattcacacc taggacatca caataaaata gatcgcttga 32280  
gcccaggagt tcgagaccag cctgggcaac ctggtgaaac actctctcta caaaaagtac 32340  
aaaaattagc caggtgtgat ggtgcgtacc tatagtcaca gctacttcgg agactgaggt 32400  
aggaggaaca cttgagccta ggaggtcgag gttccagtga gctgagatct tacccttaca 32460  
ctccagcctg ggtgatagga cgagaccctg tctcctcctc agaaaaaaa aaaaagcatt 32520  
acttaatctc ttagcctctt aatggcccc tctggaatag gcaaataagg gggaaactgt 32580  
gggggaaagc ccaataccta cacttcctt ttgttttttc tggaagtctt cccctttttc 32640  
cccagctgga atgcagtggc acaatcatgg ctcaactgca gccttaatcc cctgcgctca 32700  
agtaatectt agcctcccaa gtagctggga ctacagggtgc atgctaccat acacctggct 32760  
aattaaaaaa gaaaaattat tttttagag ataagggtgt actgtgttgc ccaggctggg 32820  
ctggaactcc tcacctcaag ggatcctctt gcctgggcct cccaaagtgt tgggattacg 32880  
ggcgtgaacc actgtgcctg gcctgaagtt ccttttctga aggcagcagt ctctcttgca 32940  
ttccaggctc atcttgttac tttttttttt tttttttttt ttttgaggca gagtttcaact 33000  
cgttcccagg atggagtgca atggcacgat cttggctcgc cgcaacctcc acctcctgga 33060  
ttcaagegat tctcctgcct cagcctccc agtagctggg attacaggca tgcgctacta 33120  
tgcccggtca attttgtatt ttagtagag acagggttcc tccatgttgg tcaggcttgt 33180  
ctcgaaactc tgacctcagg taatctcccc gcttcggcct cccaaagtgc tgggattaca 33240

ggcatgagca accgcgcctg gctttttttt tttttttaa tagagacagt gtctcactat 33300  
gttggccagg ttggtcttga actcctggct tcaagcaatc ctcttgctc agccctcaa 33360  
agtgctagat tacaggcatg agccattgtg cccagttgtt acttttctga ttccttcaaa 33420  
cagatgttaa tattttgttc actttttcca gttgttctgt agtgggaggg gtctgaatga 33480  
cttggtttcc tagaaggga gtaggtagt tctaccttc tgttacgtag tctagtataa 33540  
tttctgtgtc ttttcttatt tcagtatgcc taatgatatt cttcccagag ccgtgtgaa 33600  
tgactgcata ggttgaacac aacaacacag tgaccctaatt ccttccgata ccttggtctc 33660  
ttagttcctt gacctctatt cctgggatcc tgttctctgc cctacctcag ccaccttcc 33720  
ctttgagtta ctgttacctg aaattcatac ccttttatct ctgtttcaga cttagcactc 33780  
tacatcctcc tgatcttccc agctgatgcc cttccagcat cctgtgatc tttgactcca 33840  
tcatgacgtc agttcattga ttataccacc ttttcccttg atgtttctta cgcttttgtt 33900  
cagcttaaat tccagtcatt agaacacaac ctctcctcct attcctttgt cttcttgttt 33960  
cattagtctt tttggctatg ccacaacctg tgttttactc tcattccccg gaaaatagag 34020  
catacaacaa agcttttact gggctaatac tttacttgaa gttagaatga aggggaaaat 34080  
agaaagttag acaggaaagg agggaaagca aatacagagt gctacgttat ccagcaggct 34140  
acagcatcat aagaacctta gctggctgct cagtcattgtt ggaaatctct ggagaatcat 34200  
ggcacctctc agaatacttc tggggacagg tttgagggag gatggctgag agatttattt 34260  
gttggctccc tctcatatcc tgtctcttac tggtcagagt tgcctgaagg atcttaatta 34320  
ttctatactt ttgggtttgt tacttggtt ctctatgcag ctgctggaaa agcagctgat 34380  
ttggggtaac agggcttctg ccacagcagg cacagtgagg accaccaaaag cctacctgtt 34440  
aacactgggg aggtagagac cactagtggg aggctgagtt catatgatcc tcccagattg 34500  
caggattttg cttgtgctgc tgagcctgct tcagctggga agtagaacag caggcaggac 34560  
cgagtggatt ttggaaagtg tgtatgagct gcatttgta taccttgtgt aatccaactt 34620  
tttgcttatt ctttgcttgc tttcccatag ctcaatgtgg ctggagaaac catactgatc 34680  
actctgactt cacagtcatg attaccaaga ccaagaggct tttattatag gttatagtct 34740  
gttttcttat tccaattact cttctagata gtttaaattgt cttactttaa tcttctaatt 34800  
ctccctgcct taccctcctt ttatttcatt ggggaaaaaa cctgaatcaa ttagaagaaa 34860  
actactcact ccccttacca gatgtgctac ctgtctacat ctgtgcttgg tactctgcct 34920  
tctgtaactg ctagctaagg ccaaacctg tgcacgtata ctaggctcca tgcttttcta 34980  
cctgtttaag gataatcact ccagtagtcc atcctttatt tgcattcatca aatttttcat 35040  
ctctgttgta tcattcttat cagegtatta aacgggctat tacttcttgt ttaaaaactt 35100  
ttttgccggg tgtggtggct cacgcccgtg atcccaacac tttgggaggc caaggctggc 35160  
ggatcacctg aggtcaggag attgagacca gcctggccaa tgtggggaaa ccccatctct 35220  
actaaaaata caaaaattag ctgggcgtgg tggcgggtgc ctgtaatccc agttactcag 35280  
gagactgagg caggagaatc gcttgaaccc gggaggcaga ggttgacgtg agctgagatt 35340  
gtgcccctgc actccagcct gggcgacaga gtgagactct gtcttaaaaa aaaaaaaaaa 35400  
cacacacaca caccaaaaaa acaaaacttct tttggttatt ctgattctgt atattcttcc 35460  
ttttctccta ttcttttaca catttcattc aggccttttgc cccactgct cctctagagt 35520  
tgctcttgag gtgatcaatt gctccatgtt gctaaatcca gcaatctgtt tgcagtcttc 35580  
accttatttg aaatatctaa cccaagagac atatgtgtct gtgtgtgcgt gtatatatat 35640  
atgtatataa tatgtatgaa gggtttatat atgcataaat ttaaaagggg tgtgtgtgtg 35700  
tgtgtgtgtg taaaattgac cgacatgact gtgaaggcca ggaagtccca aaatctgcag 35760  
ctggcaatct ggaatcccga gatagctgac agggtaagtt ccagttcaag tccgaaggca 35820  
cgagagccag gtgagccagt gtctcagctc aagcagttag acccagagga gtccctctt 35880



aaactcagcc tttttgttct cttcaggctt tctgtgggtt gtatgagtcc caccacatt 35940  
aaggagggca gtctgcttta ctcatgccac ggattcaaat gttcatttta tctgaaagca 36000  
ctgtcacaga tagaccaga ataatgtttg accaaacatc tgggcactct atgctgtagt 36060  
ccagttgatg cataaaatta accattacag aaccttttct tcaacttgaca tttagaacag 36120  
gatgccaata tagtcctat aagagctagt ccctggcttc agctccacta cccgtccccc 36180  
cgcttttctc tctctctctc tcttttcttt ttttgttttt ttggagactg agtcttgctc 36240  
tgttgcccag tgactcactg caactccaaa aaaaaaaaaa gccttactaa taaaactctt 36300  
agcctcttag tggatccctc tggaatgggc caataagggg gaaagcccaa tacctgaact 36360  
tctcaatgaa aatcctgggt tcaaacaatt cttgtgcttc agcctccga gaggtgggat 36420  
tacaggcacc caccgccatg cccggccaat ttttgtattt ttagtagaga cgggtgtcca 36480  
ccaagttggc caggctagt cgaactcct gacctcaagt gatccacca cttcggcctc 36540  
ccaaagtgct gggattacag gcgtgaggca ccacgctcgg cctccccctt tctctactgc 36600  
agtcagaggt gccaaactgc tctttttttt tttttttttg agacggctc gctctgtcac 36660  
ccaggctgga gtgcagtggc atgatctctg ctcactgcaa actccacctc ctgggccccaa 36720  
gggacccctc caccacagcc cctccccaa tagctgggac tacaggcgtg cgccaccaca 36780  
tgccctggctc atttttgtat tcaacacgt gtttcctgac cgtagctgga taggcttctg 36840  
tgttgggggc tttgactca ttcactgccc tgaagtgcct ccttgcctgt gggcacctcc 36900  
tccccatcca catagcccat ggctttatc tggccacgtg tactgaaatg tgacattctc 36960  
atgagggttt tctcatcag tctgtctcag ttttcagctg catccccggc acttctgtt 37020  
ccccttcctt gtttttcttt tttctcattt actcttatcg tcatctaaca cacttcctta 37080  
tttatcttgt ttattgtatg attccttcaa ctagacggtg aactgtgagg tgagaggaga 37140  
gctttttaa atcttggtgc cttaacagcc tcccccccc ccaccactgc ttctagaata 37200  
gtgcctgggtg caaatgtgc tctcagtaac aagttttctg tttattttaa aatacggacg 37260  
gaatttcgaa gctttgtgat agagataaaa aaaatggaca ggagcttttc ccaggaggta 37320  
taciaagtat aggtgtctgg cctggaactc tccacaaaga ataccttat tgctctacaa 37380  
atgctatttg tagtctaac atggatgagc tgatacaatt ctgaaggcac cttgcagcct 37440  
tctctccttg cttctagctc cacgtgtgtg cgagtctgca tatgtgagtg taagggcagc 37500  
actgtgttaa agagatttac aaacatctt ttaatcctca taacaatcct acaccacaca 37560  
tgtcatcctc ccctttgtac agaccataaa actgatattt agagagctta aacgtcttgc 37620  
ttgaggcctc aagtggtaag tggcagaact cagcttgaag tgacttgact attattacat 37680  
tatatgtgac ctctagata aagagatgcc tcttatttt gtgtaaggca gaagtgggga 37740  
gtcttgaggca gattacttaa ccactgctat agtttggtg tggtttgtcc ttagcaaacc 37800  
tcatgttgaa atttgatctc cagtgttggg ggtgggccct aatggaagggt gtttgtgcca 37860  
tggggctgga accctcataa atagattaat gccctcctgg gtgaggggtg agtgagttct 37920  
tactccttta gttcctacaa gagctgggtg ttaaaaagag ctggcgccct tctcttgctg 37980  
cttctctggc catgtgacct cttcacatgc tggctcccc tcccttccg ccatgtgtgg 38040  
aagcagcctg aggttttcac cagatgcccc atcttccagc cggcggaatc atgagccaag 38100  
tgaatttctt ttctttgtca gttaccagc gtcattgatt cttttatagg aacactaaag 38160  
ggactaagac aacctctta ggtcctaata atatacatc ttatagattc aaagtatctg 38220  
cttagcatgt actccattca aagcaactgt tcaaaggtaa gaatcctatc agggatcagt 38280  
gcagaaatac gacaccttac acatttctca gctttcacct tcccagagct tcctcggatt 38340  
ggctcctctg ttagtttctt ggatctgaag gtaatactc atccagaaga taagaagggt 38400  
agtggggact gtcaccacga aggagctttc cttttctggg tcaagttatt tcccagctcc 38460  
actcacctcc ggactgtttc atgaagaatt ccagaagtcc ccttctcct cataggaaag 38520

tgcaccgaac cactcagatt taatggctta aaacaactgc tggatattga ggatttggtc 38580  
aggtgggcag ttgtggttct gggctaattg gggccggtgt catctgcttg ctccactgtg 38640  
atctggaaca gctgggcctt ttttcttggt tactgtgtag tctcacgacc tctccttttc 38700  
cagtgaagtc tgcagtagga cctgatggct tatgcagtgg ttcagggcaa acattcccag 38760  
aggaaggaaa cagaaactgc cagttctttt tgaagtgtag gcccagaact ggtatatcat 38820  
cacttctgtc acatttcccc gatgactttg tgtctctgac catcccaaac tcaactgtgag 38880  
aagtgaactgc atgggggtgtg ggagtaggtc cattgggagt ggactagtcc agacctttt 38940  
tttttttttg agacggagtc ttgtgtgtc gcctgggctg gagtgcagtg gcgcaatctc 39000  
ggctcacggc aagcctcgcc tcccagggtc acgccgttct cctgcctcag cctcccagat 39060  
agctgggact acaggcacc gccaccatgc ccagctaatt tttttttttt ttaagtagag 39120  
acgggggttc accgtgttag ccaggatggt ctcgatctcc tgacctcatg atccgcctgc 39180  
cttggcctcc caaagtgtg ggattacagg tgtgagccat cagcccgcc ccagtccaga 39240  
ctatttttga gaataaaaag gggcctatta aaaattatgt caggttgaca gacataaact 39300  
ggaactgtcc tcacctagtc tggacatgtg ggtatcatta tcatctctac aacttgga 39360  
aaacaacaca taggtgtgac cttgaatctt gaatctgttt tcttgcagtt ctctaagt 39420  
gaaaatgtga ctgcattgag tatgcagtgt atgttttaaa ttgaatatag cttctaagca 39480  
gaacccatca actcttctt tctgttctgt tctttacttt tctttctttt ttttcttttc 39540  
tttttttgag acaggggtctc actctgtcga ccaggttggg gtgcgggtggc gcgatctcgt 39600  
ctcactgcaa cctctgcctc caggggttcaa gcgattctcc tgcccttagcc tccaagtag 39660  
ctgggactac agactacaag cgtgagccac cagcccgacc taattttttt gtatttttag 39720  
tagagacggg gtttcacat gttggccagg ctggtcttga actcctgacc tcaagtagtc 39780  
tgcacgcctt ggcctcccaa agtgcctggga ttacaggcgt gagccaccgt gccgagccac 39840  
catcagattt tcttggtggg cactgaatga tgacagaaa agtttaattt aacactggag 39900  
ggaaaaattg gctttgaatt tcttgagaaa taatttcgtt tgttggtttt tttttttttt 39960  
tttgagatgg agtctcgctc tgtcaccag gctggagtgc agtggcagta tctcggtca 40020  
ctgcaagtag cgcacctcgt gttcacgcca ttctcctgcc tcagcctctc caagtagctg 40080  
ggactacagg ccccccaccac cagcccgcc tcattttttt tattttttagt agagacgggg 40140  
tttcaacgtg ttctcgatgt cctgacctcg tgatctgcct gcctcgccct cccaaagtgc 40200  
tgggattaca agcgcgagcc accgcgccc gccagtttgt tggtttctaa tagagagctt 40260  
tctgaagga ttttctgtt tttttcttt tttccccct gcaaggggaa tttttcaaga 40320  
ctgattttga ctgcatgcta tcttttctt tcttttctt tcttttctt tcttttctt 40380  
tcttttctt tcttttctt tcttttctt tcttttctt ttttctttt ctttctttt 40440  
ccttttctt cttttctt cctttctt cctttctt cctttctt cctttctt 40500  
cgcggggggt ggcgtgtcgc gtgtctcgtc tctctctcc tctttcttt ctttttttg 40560  
agacaggttc tcaactctgc acctagactg agtgacagtga agtgattata gcccctgca 40620  
gcctcaaact cctggggtca agcagttctc ccacttcagc ctctgagta gctgagacta 40680  
tttgtgccac tacatctggc taatttttaa attttttta cagatggggg tctcactgtg 40740  
ttgccaggc tgatcttaga ctctggaca caagccatcc tctgcctca gcatccaaa 40800  
agtgcctggg ttacaggcat aagccactgt gcctggccag ctgttttcaa cctatatgct 40860  
gacctggatc taatcctctc ataagataaa atttactct gctgattaat cagatcattt 40920  
taaaggtctc atctagctct aagagactct aataatccaa tagaaagtgg ttacaaacac 40980  
cgaaagtaca attgggaaga tataataaag gctttcacag ttcatatgtg atctggggtc 41040  
agatgggatt caggaaactc catactttgt gtttttctaa tattaataaa atttttatat 41100  
agagatgggg tcttgccata ttatattgcc caggatactg ttgaaactcc aggtcaact 41160

gattgtccct ccttggcctc ttaaagtgct aggattacag gcttgagcca ccatgcttgg 41220  
ctaccccata atttgaagga gagttagttg caattaaaaa tggagggtttt tttttctttt 41280  
ctctttgaga cggagttttg ctctgtcacc caggctagac tacaatggca tgatctcagc 41340  
ttacagcaac ttctgcctcc cgcattgaag cgattctcct gtctcagcct tcttagtagc 41400  
tggaattaca ggcgttcgcc aacacgcccg gctaactttg tatttttagt agagacaggg 41460  
tttcaccatg ttggccaggc tgggtctcgaa ctctgacct cagggtgatcc acccacctca 41520  
gcctcccaa gtgctgggat tacaggcatg agccaccgta cccagtcctg gagtttggtc 41580  
ttaacagaat atcaaactctt gagaagtga ctataaaaga aaattctaaa attaaaaatt 41640  
ctattctctg tataatacat agaaggtaga tttttgaggt atgacattta agatgtgagg 41700  
tgctctaaa atgtacacat acatgcttgt gtactccacg taattgtgcc tcaaggaggt 41760  
agggtgaggc tttctgtctt tcttgaaaca tgttactctt gttcagtgtc tggaaaaagg 41820  
atgtggttag atggagtact ggcttgatac aattctctgt cttgccagg gttgagggtg 41880  
gtgtcaatga aaattctcaa tttgaatgcc atgtaatagg ctcttatta atctgacta 41940  
cagtataaaa aacaggctgg gcttcatggc tcacacctgt aatcccagtg ctttggttgg 42000  
ccgaggcagg agggtcactg gaggccagga tttcaaggct tcagttagct atatgattat 42060  
gccactgcac tccatcctgg gtgacagagc aaaacctgt ctcaaaaacc aaccaacca 42120  
ccaacccgca aaacaaaaac agatctctcc aagcttcggc agatttgagt aattatgtga 42180  
tctctcttg actgaacaag tcacttgtca gatgaatata tgggtccact atctagggac 42240  
agaaggttcc cactaacatt gatttcaggt aatgcataac aaataaatac taagtttttt 42300  
gacatctttc cacaacatgt ttatattacg tgtgtgtgtg tatgtatgtg tgtgtgtatg 42360  
tgtgtatata tatatatatg tatatatata tacacacaca cgtacataca tatatatatg 42420  
tgtgtatata tatatatatt ttgggacaga gtcttgctct atcgctcagg ctggagtga 42480  
gtggcgcat ctgactcac gacaacctct acctcccagg ttcaagtgt tctctgcct 42540  
cagcctcctg agtagctgga attacaggca cgtgccacca tgcttgcta atttttgtat 42600  
ttttttttt ttttaagtac agaaggggtt tcaccacgtt ggtcaggctg gtctcaaact 42660  
cctgacctca ggtgatccgc ccacctcggc ctcccaaagt gataggatta cagggtgtgag 42720  
ccaccatgcc tggcctttt ttaaagagat ggagtctggc tgtgttggcc tgggttggct 42780  
tgaactcctg gcctcaagca gtctcctgc cttggcctcc taaagtgcta ggattacagg 42840  
catgagccat tgcaccagc ccaatgttct ctagtttttc ttatgcaaac ttttaaattc 42900  
ttctcagtat atatgtctaa aatcttctgt tacaacaaaa tactgaagct gctgcacacg 42960  
gcggctcatg cctataatcc cagcactttg ggcggcccag gcgggtggat cacttgagggt 43020  
caggagtttg agaccagcct ggccaccatg gtgaaaaccc atctctacta aaaatacaaa 43080  
aagtagccgg gtgtcatggc aggtgcctgt attcccagct actcgggagg ctgagggtggg 43140  
agaactgctt gaaccagga ggcggaggtt gcagttagct gagatcactc cactgcactc 43200  
cagtctgggt gacagagtga gactttgtct caaaaaagaa atggaagcaa tgtatatatta 43260  
ttaaaatatg tatatacata tacagaaatg agctaaaagt agctatatta ttattaaaat 43320  
tgtatgcaat aatgattgca tagcatgttg gtatgaatat gaccataatt tgacgcaagt 43380  
tgacacattt ttttttctaa tattctgtat tacaactaat ctgcatggat tgtttttctg 43440  
catgtaatct ctgcttactt ggtttaactt tttggctgag tcttgggaagt ggaattggtg 43500  
aattaaaaat ttagatataa actcccaaact tgagccaggc gtggtgtcat gcacctgtag 43560  
tcctagctgc taagggtggga agatcactta tgcccagcaa ttgcagtggg ctatgattga 43620  
gccattgcac tccagccttg gtaatgcagt gagaaacata aaagtttctc cctccctccc 43680  
tcccttctga cagagagtct cactctgtcg cccaggctgg agtgtagtgt caccactgca 43740  
acctccgct cccagggttca cgccattctc ccacctcagc ctctgagta gttgggacta 43800

caggcacctg ccaccacacc cggctaattt tttgtttttg tatttttagt agagatgggg 43860  
tttcaccgtg ttagccagga tggctcttgtt ctccctgacct cgtgatctgc ccgccttggc 43920  
ctcccaaagt gctgtgatga taggcgtgag caaccacacc cggcagtgag aaactgtttc 43980  
taaaaaaaat tttttttaac gtagaaatct tttccttttt ttgagatgga gttttgctct 44040  
tgtcgcaccag gctggagtgc agtggcggtga tcttggcgca ctgcaacctc tgcctcctgg 44100  
gttcaagcga ttctcctgcc tcagcctccc aagtagctgg gattacaggt gcctgccacc 44160  
acaccccgct aactttttgt atttgtttac tagagatagg gtttcactat gttggccagg 44220  
ctggtctcga acttctgacc tcaggctatt tcttccccca gggcctccca aagtgtctgag 44280  
aatacaggtg tgagccactg cgcttgccca tagaaatctt ttcatatgtt tgtagatcat 44340  
tcttctttga gtattctcta ttttttacct tcaccggtt tactgagttt cttattggtt 44400  
tataagaatt ttttttgctg ggtgcagtgg ctcacacctg taatcccagc cctttttggg 44460  
gccgaggcag gcggatcacc tgaggtcagg agttcgagac cagcctggcc aacatggtga 44520  
aacccccgtc tctactacaa atacaaaaat tagctgggca tgggtggtgca cgctgtaat 44580  
cccagctatt tggaagactg aggcattgtg atcacttgaa cccgggaggt ggaggttgca 44640  
gtgagctgag atcgaccat tgcactccag cctgggtgac aagagtga aa ctctgtttca 44700  
aaaaa caaaa acaaaaactct ttgcatattg aaggaactta cttagcaagcc 44760  
ttttgacata gactttgtaa atgtttttct tttgatgatt atatatatgg ttagtttggc 44820  
tgtgtacaag ttttttttgt ttgtttgttt gtttttttat tttttttttt ttgagacgga 44880  
gtcttactct gtcgcccagg ctggagtga gtggcacaat ctcggtcac ggcaacctcc 44940  
gcctcctgtg ttcaagcgt tctcctgcct cagcctccc agtagttggg attacaggcg 45000  
cccgccacca tgcccagcta atttttgtat ttttagtaga gacgggggtt tactatgttg 45060  
gtgaggctgg tctgaacct cctgacctca gttgatctac ctgccttggc ctcccaaagt 45120  
gctgggatta cagacttgag ccaactgcacc tggccgcata tatatatatt atttttttat 45180  
ttaaaaaaat gtttctgaga caggatctca ctatgttget gaggctggag ttcagtgggtg 45240  
tgatcatggc ccaccgcagc cttggcctcc tgggcttagg tgatcctccc atctcagcct 45300  
cccaagtagc taggaccaca ggcaccatcg tgcttggtca atgttttagta tttttttgta 45360  
gagtcgagat ttttgccatg ttgcccagg agtctcgaac ttaggagttc aaaacgattt 45420  
gcctgccttg gcctcttcaa gtgctgagat tacaggcttg agtcacctca catggctgca 45480  
aagcgatttt ttttgagaca catttagttt tttcggtgat gtcagtaatt ttacaattaa 45540  
agaaaaagtt atctgaacaa agggagagt cccctaaatt gctaagagg agcattgctt 45600  
tgtttttttc tagtttcgtt gtgtcttaca gtgttcaaac actgtactgg aagtaataa 45660  
ttaagtttaa aataattttc ttctccagtg tttgattatc catttctttt tgttccaatt 45720  
tctgtatctg aaaaacaata ttggcttcaa aaacgaacaa aaaaaattt aacttcccc 45780  
agattgcaga tttaccatgt aaatgtgtt ccaccctgtt ttcaagctaa tgtgacaaat 45840  
ttgctacatt ataaagaaca gaaacctgtg tacagatttt ggggatagca cacataaaat 45900  
agtccaagga cattatcaac tcagggtgcag aagttcttgc tgaagttcta ttaacaattg 45960  
tgttttaaaaa caccagatgg gagcagattt aaagaggag attctaattg aaggttagtt 46020  
gggatttgta gggaagagag agaaggattt taattgaaaa gatactagac cgtattctta 46080  
cctttatagc gttgtcttct tttctttctt ttcttttttt ttgagtcata ttttcgttct 46140  
tgtcaccag gctagagtgc agtgggtgta tctcggctca ctgcaacctc agcctcccg 46200  
gtagctggaa ttacaggccc ctgccaccat gccagctca tttttgtatt ttcagtagag 46260  
atggggtttt gccatgttgg ccaggctggt ctcgaactcc tgacttcaag tgagctactg 46320  
gccttggtct tctcaaagg tgggattaca ggtgtgagcc acctcgctg gcctatagta 46380  
gtgttttttt ttcttttctt ttcttttttt cttgagacgg agtcttgcta tgtgtccag 46440

gctggagtgc agtggcacaa tcttggetta ctgcaacctc tgccctccctg gttcaagcaa 46500  
ttctgctgtc tcagttagta gctgagatta cagggtgcga ccaccacatc cgggtaatgt 46560  
ttgtattttt agtggagacg gggtttcgcc atgctggcca ggctgatctc taactcctga 46620  
tgtcaggtgc tccgcctgcc tcagcctctg aaagtgctgg gattgcaggc gtgaactact 46680  
gtgcccagcc tagtagtatt ttctatccaa gttttggatg taattctctt gggatttttt 46740  
tcctaatttg tacagctacc actgtactgt tcatgactgt atccatggga acataagtag 46800  
gatgacataa gtttataact tgttgctagg cagatctagc ttgtaatgta ttaagatttt 46860  
cccattaaaa agcatttgga tggttttctt ttgtgcgggtg aaggtaacta aacagcgtaa 46920  
tttggaatta aaactgtgaa gttgtataaa ttccttctag gagaaccaac tactctttgt 46980  
tttctttctt tctttttttt tttttttttt gagacaagat ctctttttgt caccaggt 47040  
ggactacagt gacatgatca ggtttcactg cagcctggac ctccctggaca caaatgatcc 47100  
tcctacctca gccttctcct cccctttacc agctcctccc ctcccttcc ccagctctcc 47160  
ccctccagta gctgggaata catgtatgca tcagcatgtc tggctaatta atttattttt 47220  
taatttttat ttattttatt atttatttat ttattttatt atttatttat ttatttattg 47280  
agatggagtc tcgctctgtt gtccaggctg gagtgcattg gcgtgatctt ggctctttgt 47340  
atcttctctc tcctgggttc aagagattct cctgcctcag cctccctagt agctgggatt 47400  
acaggcacct gccattatgc ctggctgatt tttgtagttt tgtggagatg cagtttcacc 47460  
atgttgcccg ggctggctct gaactcccag cctcagaaga tctgccacc tcagcctccc 47520  
aaagtgctgg ggttacaggt gtgacactga gctcagccta ttcattcatt cattcattca 47580  
ttcattcatt catgagacgg agtctcgtc tgcctccagg ctggagtga atggcatgac 47640  
ctcggtcac tgcaacctc gcctcctggg ttcaagtgat tctctgcctc agcctcatga 47700  
gcagctggga ttacaggcat ctgccaccac acccggttaa ttttggtgtt ttagtagaga 47760  
tggcgtttca ccatgttagt caggctggtc ttgaattccc aacctcagg gatccgctg 47820  
cctcagcttc ccagagtgtt gggatgacag gcgtgagccg ccacaccag ccatatata 47880  
atgtattttt tatttgagtt tgcgttttgc cgtgttgccc aggctgggtc tgaactccg 47940  
aatttcagat cgcctcctc agcctcctaa agtgctggga gccgctgtgc ccagcctagt 48000  
catgttttta attaatgaa tgtctgaaat ggaagataat gagttaaaat aattgtgtct 48060  
taagcctgtc ctcttcagct aaaacagtca gtatttagat atgtatgaac gagatgtgaa 48120  
cacttgatcc atcctaaagt acatagcaga tttcaagatg atgacaggta tcttgggtag 48180  
ttcttccgac tctcaaagac ttggtggact aaccaagaaa acctcatgga gatcgagaca 48240  
cctgtcttgt attttggttg caatttttta aaattaattt ttaaaaaatg taatattagt 48300  
gtaaaataac taaatttcaa aaaagtttag aatgagatgt aattgaggtc acatagctct 48360  
ttctgcaga ggctatcaca cttaacacct tatctgattg taatttaaag aattttttga 48420  
ggctggacac gttggctcac gcctgtaatt ccagcatttt gggagactga ggtaggaggg 48480  
acacttgagc ccagcctggg caacatagtg aaaccccgtc ttacagaaaa ttaaaaaatt 48540  
agctggctgt cgtagtgtgc acctctgggt ccaggctactt tggagtctga agtgggagga 48600  
tcacttgagc caggaggtt gaggtgcag tgaactgcca ttgactcca gcctgggtga 48660  
cagagcaaga tccctgtctc agaagaaaaa cagaaaagag gctgggtgtg gtggctcacg 48720  
cctgtaatcc cagcactttg ggaggctgag gcagggtgat cacgaggtca ggagatcgag 48780  
accgtcctgg ccaacatgtt gaaaccccat ctctactaaa aatacaaaaa aaattagctg 48840  
ggcttggtgg cgcgtgcctg tggctccagc tacttggaag gctgaggcaa gagaattgct 48900  
tgaaccgga aggtggaggt tgcagtgacc cgaaattgca cactgcact ccagccttgc 48960  
ggcagagtga gactcggtc taaaaaaaaa gaaaaccaga aaagaattat gtaagcagtt 49020  
attcaataat aaataatatt tatgcagctg ggcacagtgg ttcacacctg tagtcctagc 49080

acttttggag gctgaggcgg gtggatcact tgagcccagg agttcggggac caacctgggc 49140  
aacatggcaa aaccccatct ctacaaaaag tacaaaaatt agccggttat ggtggtgttc 49200  
tccttttagtc ccagctattc aggaagctga ggtgggcgga tcaactgtgc ccaggagggtt 49260  
gaggctgcag tgagccaaga tgcgccact gcaactccagt cccaacaaca gagtgaagacc 49320  
ctgtctcaat taaaaaaaaa ataataatat ttatgccgtt tttttgtacc agctactatg 49380  
ataggtgctt tataggacaa tttggggaag taattgctgt taactccatt ttactcatat 49440  
aaggaaagtg acgcttgcaac aaggtttaat atttcttgcc cactaacatg tatgcttcaa 49500  
gaaagcaggg gctatgtgtt acttctgtct agccccctcc tgtatctagc atagtttctt 49560  
tggggtttgg gtagtgtgtc aaatacagt gaaaggctgg ttttaciaag atgattgttg 49620  
tatcttcatt tattaccttt gaactttag cttcataggg aaatcatggg aatttgagca 49680  
gcaactgaatc tgcattgtatt aaaaaaactt gcatcatttc tggatttcat gtggtgaata 49740  
tttgatagta cctctcgtga tttgataagg tccattattt ggggacaagg gtggttaaca 49800  
tagggattga tggaattgtg actccattct gttgtggcgt gtttagtttt tacctcttcc 49860  
cctttactcc tcgtgcccc a gctgcgtctg tgtccattgt cctttcagtt tcttactcta 49920  
attgaaagaa tacataggta aagaaggaat ctgatagaag gaataaactt ctttgacggt 49980  
attaacaagt gtctgatctt gattagtgt agttgtattc agtgccctcat gtttcttacc 50040  
tttgaattgt agaaaaataa atttttagatc tgggttaagat tcttgagatt atttggcagg 50100  
aggaaattga agcgcagttc agttccatag aatgttgttg aatgcgttcc ttcatttgtt 50160  
aagagtata atatttgtct cataggggtg atacaaggag gaagagatac tctttataaa 50220  
aaagtcttag gccgatttga tgataatact aatagttaaa cttgttcaga agttaatctg 50280  
ggctgggcat ggtggctcac acctgtaatt tcagcacttt gggaggcaga ggtgggaagg 50340  
atcgtttgag cccagaaatt ccagaccagc ctgggcaaca aagtgaagacc tcgtctctat 50400  
aaaaattata aaaataagcc gggatatggtg gcacatgcct atggtcccag gtactcggga 50460  
tgctgagatg gaaggatcac atgagcccag gaagtcgagg ctgtggtgag ctatgatcat 50520  
tgccactgca ctccagccta ggtgacagag tgagaccctg tctattaaaa aaagttagtc 50580  
tgtgttagca tagtatcggc agaaaagtat tctgacacag tataggaggg atcagggtat 50640  
gggggaatga gtcaggaagg ccatttttaa gattttacag tgtcctaacc ttgatagtga 50700  
aggctaagca ttagaaatgg aagagattgg ctgggcgcag tggctcacgc ctgtaatccc 50760  
tgcaactttg gaggccgagg cgggcagatc acgaggtcag gagatcaaga ccatcctggc 50820  
taacacggtg aaacctgtc tctactaaaa acacaaaaaa ttagccgggc gtggtggcgg 50880  
gtgcctgtag tcccagctac ttggcaggct gaggcaggag aatggcgtga accggggagg 50940  
cggagcttgc acagtgaacc cagatcatgc cactgcactc cagcctgggc gacagagcga 51000  
gactccgtct caaaaaaaag aggaatggaa gagattagaa aagatgtgaa caaaccttat 51060  
agagcttcca ggaaaggaag aaaggtaaaa acattgagat ttggaatgtt gagtaatggg 51120  
atagtataaa cagtatagca gtatagagat gtcactaatg ttttagaaac tgaaataata 51180  
gattaatgca tggtaattac cttgccagaa ctgaaaagcg gtggtagtga tgctggagga 51240  
agcagattgc tgctgcagaa ctgcagcaag gcctaggagg tggaggcacc aggtatcttc 51300  
agaggcccag gtgtggtgtg gttggcccta agctgatggg ctgactgaaa gtctccagga 51360  
attcttctctg tctctagatt atgcttcatt ccagcagtc aggaattaga ctttccctag 51420  
cctagcacia gacaagttaa cttttggtag agtttgaacc agagctgtac cctagacttg 51480  
aaatggggag gacgggtgga aactatctgg acgtgggtgg ggagacgtat ctatgaagtg 51540  
aaagtttgta tattgaatgg tcattccaga attcttaata gcctggctta tactctccag 51600  
caaattagaa ggttcttctt tgggagaaaa ctggcccaga tgctaacaat tgagtgttac 51660  
cctgtattcc agttattacc gcctaacaac tgttgcgtgt actattgtct ttaaacaaca 51720

acaatcgttt tattatctca cactttctgg tgatgaggat ttaggaagac atcagttggg 51780  
cagctctggc ttgggtttct ctgacttaag ttgtgttcac atgggtggctg gagctgaaca 51840  
gtaggggtgct gaagtggcct tggctggcca gacagctttc ttcttggtgt ctgagcatgg 51900  
gctgatttgt gctcctcaca acattatggc ctctgactgc ttacaagaaa gtgcaggctt 51960  
ccaaagcaag tatcgcaaga aaactgacta ttaactgatt cacttttcat gacccagcct 52020  
cggaagtcac ataggctcct ttccgatgta gtcacaagtc tagtcagctt caagggcagg 52080  
gaacatagat tccatctctt ggtaggagta cagaagtgga attgcagtca gagtgtgaagg 52140  
ggctccctgtg ggatgacatg agaaacattc tgtgaccacc tttggaaaac acaatctacc 52200  
acattttctc atttggtcac aataattcac attcctcctt cttgtcactt gtgctcacac 52260  
cctctcccat cacatcgctc ccccttcctg ctatggcatt aacttcaagt tcagcatctt 52320  
gtcacctgaa tcaagcccag ttgtggccac ccaaagctcc tcaggtgtgg ttctctaga 52380  
gctgaactca tgtgacgtca agagaaggaa tctgttgctt cctctgactt aaaatggcag 52440  
gacaagctta ggataattgc tgtagacaca tctgccaga aaagaggaaa caggaggcac 52500  
agtagtttct catccattgc cattctgaaa ttcagcaggg cacacgttac caattccttg 52560  
atltggctctc agttctgggtg cctgggaatg attgtttcag gctctgggtt ctgctgagaa 52620  
ttttgttttg tcttctgagt tacccttttc cctaagaaat ggctgatttt tatagctgag 52680  
tagttttctt agcctttgtg ctttcggtag ttttgaggga acaaaaaaac cttccctca 52740  
ttttgtactg tttttgtctc tttcagtcca aactgggtata attcctttga aaattttgtg 52800  
ggctctctct gtgtcaattt gtaacctact acattagaca ggaaccacac ttagcctgtt 52860  
tgtggtaggt ccttcatttc cttgggctcc ttgtgtgtca ccagccttag tattcttaga 52920  
agccctgttg tttgatggag aggatcttaa aatccttaga aggctcttg tctcttgga 52980  
aggacagtgc agaaccctct tagatctttt tgaggtttta agaaagtatt acagtcacag 53040  
tctgggtttg ttctttacca ctgagaattt tgagaattgt ttctttttt aaaattctgc 53100  
ctggaaatat ccttaggtag atcatggagt ttattaggtg catttcctgt tttccacatt 53160  
tctaaaggcc acattttcca ctacttagac aacaggggac ccttttctg taatgtacaa 53220  
tagtagtttt catagtttct attaatgctt tctgatagt ttcttgttg aggcccttca 53280  
ggcttttgct gatagcctct taaaggcctt gcaatttcca cctgccacc agcccaaag 53340  
ccagtagcac agttctgggt ttttgttgca gcatctcact tccaggtgcc aaaatctgtt 53400  
ccttagtctt gctgcctgaa aaatgacccc caaaagttag tgacttaaaa taattccgtg 53460  
atltctgtag gtcaggaatt taggaagagc ttgattgggc aattgtggct caggttcttg 53520  
ctttggctgc agtcagatgg tagagctgaa gagtagtgca caggcaaggc agtgtgcaca 53580  
gctggagagg gccgagctga gccgcctcca caaggtctct gtgtgaattt gtttgtgctg 53640  
cttcttcagg gcactcagac tgcccacata gctttgtgtc caaatgtatg tctgtggga 53700  
ggatgagcag aatctgtatt accttttatg atgacttagt cttggaagtt acatcacatc 53760  
atltctgctc tagtcaacaa cttgcctggg gttctagggg aggaaaacag acctcatatc 53820  
ttagtgctag ttggccacac tgtaagaagg tgatatgggg tgggagataa tgtgatcagc 53880  
tctagaaaaa tgtaatccac catagctctt agtgaaacag ttacatccct gtctgatcac 53940  
cttgcagggg agtcttgcca ttaataagca ccagctgtgt acgtgacatt aaaacttact 54000  
ttttagtact tcttctttaa ctgtgactta acagtcaagg attatcaggc acatgaagaa 54060  
aaagccataa cagtctaaca cagacagata aaaagaaacc aagtgaagaa ataggaaata 54120  
caggttgcat aagaaaagct caaatttgaa aaaacaaaaa agcttgaaga gctaagagaa 54180  
aatgcatgac ataaaagcaa gaaggataa agtaggggtc cattcagaga acaagaaaga 54240  
gctcttggaa aataggattg caggacaaat tttcaatagg aaaccaagga aatcttccag 54300  
aaagtagtag gcaaagacag acaaaaagag aaagacaatg cctgattggc ttcttgactg 54360

aaacatatattt aggtgggaag aggaagtgtg gaaatgtgaa taaggactgt atactaatga 54420  
taatgaatta atattaattt ttgcttaagt gtgataatag cactgtgggt atagaggaga 54480  
atgcccttag gcttagaaga tgcatactaa aggaactgtc atgatatttg catttttcag 54540  
atggttgtgt gcacacacgt gcgctcacac acagtgggag agggagggag aaggagagc 54600  
ggttatgtac aagagagaca actaaagcaa ttatgatata atattagtaa ttgatgatga 54660  
atacaaaaac aaaacagaag ggaatacttt agagttaatg gattgggttca ggagctccaa 54720  
catctgcact gtttagatgtt ctagagagag aaaagataat tgagaggaaa caatattaaa 54780  
tcaacacatt aaaaatgttc agaactgaaa atcacaaatc tccacattga gcagaccac 54840  
tgagtgccta gcgcagggaa taaaagaaaa aatagattgg tacatcacac tgagatttca 54900  
gaacactgag aatagagaag atctcaaaat cctccagtgg aaacaagtca agttacagca 54960  
gtggactgag aatctgtatg acactagaat ctaggtgaca gtggagcagt gtcctcagaa 55020  
ttctaggagc ataccatctt aggtttttt tttcttctt tttgagatgg agtctcgctc 55080  
tttcgctggg ctggaatgag gtggtgtgat ctgggtcac tgcacctcc gcctcctggg 55140  
ttcaaccagt tctcctgcct cagcctccca agtagctggg gttacagggtg tggaccacca 55200  
tgcttggtta attttttgta ttttttagtag agacgggggt tccccaccat gctggccagg 55260  
ctggtcttga actcctgacc tcatgatctg gccacccag cctcccaaag tgctgggatt 55320  
acaggcgtga gccactgcac ctggcccaat ttaggattct atgccaaact gtagtatgaa 55380  
cataaagaca tctttatttt tatttattta ttttatttat ttttgagacg gagtctccat 55440  
ctgtgcctct ggctggggcc cagtggcaag atctccactc attgcagcct ccgcctcccg 55500  
gattcagggg gttatcctgc ctcagcctcc taagtagttg ggactacaga cgcgtgccac 55560  
cacacctggt taatttttgt attttttagta gagacggagt tttgccatgt tgaccaggct 55620  
gatctcaaac ttctgacctc aagtgagccg cctaccttgt gctcccaaag tgctgagatc 55680  
acaggcatat accaccatgc tcggcctatt atttttaatt tgatgggtcat attattccag 55740  
atttggccaa tgggatttcc ttcaagctga ctctgtgtc cttttgacaa atatctataa 55800  
tctttatttt atttttattt ttttgagaca gagtctgtt ctgtcaccca agctggaatg 55860  
tagtggcgtg atctgcctc actgcaacct ccgcctcccg ggttcagaca attctcctgc 55920  
ctcagccttt ggagtagctg agatcacagg catgcgccac cacacctggc taatttttgt 55980  
attttttagta gagacgggtt ttcaccatgt cggcgaggct ggtcttgaac tcttgatctc 56040  
aggtgatctg cctgccttg cctccgaag tgctgggatt acaggcatga gccattgcac 56100  
ctagccctct ataatccttt aaatgcttgt ttatggtatc ttagaatatt tcaaatttat 56160  
cttgatgtt ctctgcctca tcttgagtc aactgtttgt ctaaggagga gccattctct 56220  
tgaagtggag aatagtatta tagaaaccaa tatcttgga ctagctgtat ttattgctgc 56280  
caggatattg ttgttttcag cctcttagt gggcagaaca agtagatcta tgtgtattta 56340  
tttattagac atatttattg tctatatctc tgcctacaca tatatataac catgaatttt 56400  
accacaaatg ccaccatttt gatccaacat cataggattc attttagccc ttttcctttc 56460  
cttatttgta gctctcgtct ctgacagtga gaatcttggg tctcatcctt aatatagtta 56520  
ctcatttgct taatctccct gaaagcttg cccagacatg gaatccagca aaggataagg 56580  
tgaagggaat tcttaaagag aaatcttggg ataatagctg tgtaggcatt caccagttag 56640  
tccagattgg tgagtgaaga cagggtcca aagggtgtt gtcaagaaat aaacaaccaa 56700  
tagatagcct gatgtgttga gacttacaca tgtagtagaa gtttgagggt gaattagtga 56760  
tacatataca gaaaaccaa caagcaaaaa aaacaaaaaa aaaatagaat tattaattcc 56820  
aggtaaaaa atcacacata atcacaccac tgaactctg cctgggtgac agagtgagac 56880  
cctgtctctt aacaaacata aattaaaaat caggtaaaac aaattgtaca agaattggact 56940  
tacaacaaca gaatgcaaca ggattcagct atgaatagta ttactagtc ataaactacg 57000



agagtgccat aacactgaac ttagggagca atttagggaa taaactgaga aaaaaagtac 57060  
acaggggcct taggacctaa gcagctagtg tgatatcact tgtggatgtt tagtatgcat 57120  
tttgggtacc agcccccttt gaacactgtc tttgagggga aattgtccac tccacagtag 57180  
aagctattaa tatgttttcc catcctctct tgtagtttgt catagatgtg tgacttctat 57240  
tccatgcacc agggcaagac taggattagg aagcaagtga tgtgaagtag acaagcatgg 57300  
ctgccaggtt tcagaggcag cgttttctag cgggtggtgtc cactatgcac tgccaagtgt 57360  
ccttggtgtt aacacctgca gcagttaaga cctccactga agcagttctg tggggtaatt 57420  
ctgggtgtgt cctagttgca tggcttgtaa atctggtttg atgaccttcc ttagagacca 57480  
tttagttgct tatattagct agaatgggct ttgtttactg taaaaaatct gggtgacgaa 57540  
attggcatta ggaatgatcc tcaagaaaat gaattgggta tctaacttgg ttgtgtatga 57600  
aggcagtga gaaaggtgag agcttaaaga atcatagtgg ccttgggccc ggcgcggtgg 57660  
ctcacacctg taatcccagc actttgggag gccgagatgg gcggatcacg aggtcaggag 57720  
atgagaccat cctggctaac atggtgaaac cccgtctcta ctaaaaatac aaaaagttag 57780  
ccgggtgagg tggcgggcac ctgtagtccc agctactcag gaggctgagg caggagaatg 57840  
gtgtgaacct gggaggtgca gcttgcaggg agccgagatc gcaccactgc actccagcct 57900  
gggcgacaga gcgagactcc accgcaaaaa aaaaaaaaaa agaatacata gtggccatgg 57960  
gcatggtggc tgggtgccc atccttgga ctttgggagg ctgaggtggg agaatacatt 58020  
gaggtcagga attagaggcc tgcagtgaat gccactgcac ttcagcctga gggacagagc 58080  
acagagcaag atcctgcttc aataaatgga tggatgggtg ggtgggtggg tgggtggatg 58140  
gaggaatcat agtgatcagc agtgcttaat gactgagatt agtctattct gaagtatgtt 58200  
aataaagctt gaaggatcag aggaagagag taggaaaaaa gcacacacat tctacaaacc 58260  
tcgccacatc cactcagtta aaagacagaa caggattccc ttggatgttg ggaaagggaa 58320  
gtcagacgtg aaagttgtag acaggattaa gccacttaat tttcctatta aatggactct 58380  
agagagtaag ttcattgcttc tcatcttact gatggagaag cagtaccaca tacttggtag 58440  
aattcctgtg tctgcaaaac attggttatt ctgcaattgt tataataaaa gggataaaca 58500  
ttgaagtat tgggtctcttc cttctcattg gtattgtggg tgttctttac caactgagtt 58560  
aggaactgac ttgagatatt ttaaaactac gggacttgat ttagagcact tactcttaga 58620  
tgttaaatat ttggtttgct ctttattgaa taacttaatt atcttattac taataattcc 58680  
tgtattagac aatgagactt agactcataa tagaatacag gtatcttaat gagaatgttc 58740  
tcatttaaaa cactaactcc taattcacta gcagctaata aaactaacat tgttgacacag 58800  
tacattgttg actagttaga agaatttgac agtatgtttg gtgctgagac cagctcggtc 58860  
ggggagaccc taaccagcg gcgctagagg aattaaagac acacacacac aaatatagag 58920  
gtgtgaagtg ggaaatcagg ggtctcacag ccttcagagc tgagtattgc tattaataaa 58980  
gggtgtagaa ttgaaaata ggccaggcgt ggtggccac gcctgtaatc ccagcacttt 59040  
aggaggccga ggaaggcgga tcatgaggtc aggaggttga gatgagcctg accaacacag 59100  
tgaaaccccg tctctactaa aaatacaaaa attagctggg cgtggtggcg ggtgcctgta 59160  
atcccagctg ctcaggaggt tgaggcagga gaattgcttg aacctggaag gcagaggttg 59220  
cagtgaagcg agattgcgcc actgcactct agcctgggca acagagttag actccatctc 59280  
aaaaaaaaaa aagaaaaaga aaaaagaatt tgaaaatagc ttgagagact agagaagaag 59340  
tgaactgatt tattttatat ttatgtatct tattttttgg cttgttgacc agaagtgaat 59400  
tgatatgaat aagcacactt gcaaaataaa tgggttattt atttatttat agagacaggg 59460  
tcttgctttg tttcccaggc tagagtacag tggcaccatc atagctcact actgctgctg 59520  
gcaacttctg ggctcaacgg gtctcctgt cttgacctcc caaagtgctg ggattatagg 59580  
catgagccgt catgcctggc cccctaatta tttagatagc cctgtagacc tgatttcttg 59640

tggctgaagg tctctcaaat tgattctcag taggcttcat aaataaaaagg gaacttacac 59700  
tggaggatct ttatgctgaa ttggcttaga ataagtagaa attgctagga atgttttatt 59760  
tttgtttatt taatttgcta aatctgcttt agatatgagc cttgtaactg gattttcttaa 59820  
aagtgtcctt atgattgaat ctatttgtgg tgtttggatt gattatttta agttcctact 59880  
atgtaccaga cgtttgctac ttgttttaac ttgctgttta atctctttga agaaggaact 59940  
gtttcctcca tttttataga agagaaaatt gaaacttaaa gagattagag aactctcctt 60000  
cagtctaggg agagctggga ttccatttca ggactgttat gctacaccaa ataaatgctt 60060  
gctgctgtaa agaattgactt aacagtgaac accttaagtc ttcatgccc agttacgtga 60120  
atggaagaaa ggctgagcag tgaattacaa acactctctc ctctagtctt ctggcagtg 60180  
tcctttacct aattctgtgt cctcaaacgc cctgttttct ttaggtgatt atattatttg 60240  
tttcttttaa gcttgctgt ctgcttggtt ttctgaacag ttcccttcaa atgttacacc 60300  
atccaccac atctgtattt cagtatttta ttgtgtcctt tcattgagac tctaatttg 60360  
gtgaaaattc tccaaactac atttcttttt agcatattct atttttgtca cctagaatca 60420  
gcctcccagc tgactttttc ccatagatac gtaacaacca cctgctttaa ctttttctat 60480  
cttccactta acaaaaatat tactgttgat aaataatgaa tacttagcat gtataactgt 60540  
gcaaataaaa tgggaggaat gtgtatcggg aagatttgag gggagtgtgg ataaaaaact 60600  
gtttgaaaat accagctgtt gaattttata gtgttactct ttttattttt attttttagt 60660  
tttattatta ctattttttg agatggagtt tcgctttgtc gccaggtgg agtgacgtga 60720  
cgtgatcttg gctcactgca acctctatct cctgggttca agcgattctc ctgcctcagc 60780  
ctcccagta gctggaacta gaggcgcgcg ccagccaatt tttgtatttt tagtagagac 60840  
agggtttcac catgttgga aggatgatct cgtctcttg acctcatgat ctccctgcct 60900  
cggcctccca aagtgtggg attacaggcg tgagctactg caccagcct attattattt 60960  
tttaattgag acttgtctta ctttcaccca ggctggagtg tagtggtgca atcttgctc 61020  
actggagcct ccgcctcctg ggctcaatcg atctccac ctcagcctcc tgagtagctg 61080  
ggaccacagg cactcgctac cgtgcccagc taattttttc tatttttggg agagacaggg 61140  
ttttgccacg ttgtccaggc tggcctcggc ttcccaaagc gttgggatta caggcatgag 61200  
ccaccacgtg cagcctatag tgttattctt tagtagttcc taaaaggcct gtgttagatg 61260  
tttatagctg atagttgtgg tttgaatctg tgcctccagc caaatcttgt gtcgaattgt 61320  
catccccagt gttggaggtg ggggcccag attggatcat ggggggtggat atcccccttg 61380  
gtgctatttt catgatagt agtgagctct cgggcgatcg ggtcgtctaa aagtgtgtag 61440  
cacctccctc ttgtctctct tgctcctcct ctggccatgt tatatgtgct tgctttccct 61500  
ttgccttcca ccatgattat aagtttactg aggcctccct agaagctgag cagatgccag 61560  
catcatgctt cctgtacagc ctgcagaacc ttgagccatt gaaacctctt ctctttataa 61620  
attacctagt ctcatctcag gtatttccct ctttctttct ttctttcttt ctttctttct 61680  
ttctttcttt ctttctttct ttctttcttt cttttttttt tttttttttt tgagacggag 61740  
tctggctctg tcgcccaggc cggagtgcag tgggtgcgac tccactcact gcaagctctg 61800  
cctcccgggt tcacgccatt ctctgcctc agcctcccga gtagctggga ctacaggtgc 61860  
ctgccaccac gcctggctaa ttttttgtat ttttagtaga gacaggggtt caccgtgtta 61920  
gccaggatgg tttcgaactc ctgacctcag gtgatctgcc cgcctcagcc tcccaaagt 61980  
tcgggattac aggtctgagc cattgcgccc ggccaggtat ttttttatag cagtgtgaga 62040  
acagactaat acaatagcca tcatgtaaaa tacagtttcc attttgagcc aggcacttgg 62100  
gtaaaaatga agagtaggta aaagacaaga tgtagttcta atttgagctt gtcatttagt 62160  
atttgagtaa tgccgcataa tggctgtggg tttccgatga cacacacctt ttcatgatgt 62220  
gggtggccta gggagtagtg tgtttgttgg aaccacagtt ctctgcagag ggaatatgat 62280

taagtctgat ctttgtaatt tagaattaat gaggccaggc gcactagctg acacctgtaa 62340  
taccagcact ttgagaggcg aagatgggga ggatcacttg agcctgagtt tgagaccagc 62400  
ctgggcaaga tagtgagaac ctgtctctac aagaaaataa agaaaaaaat ttttaaaaaa 62460  
agaaaaaaa tatagaattg gtatcttggc cacacctctt tccctgtggg tgagtTTTTT 62520  
TTTTTTTTT ttttctgtt cttttccttt ttttttgaga caagatctct tcgtcaccta 62580  
ggctggagtg cagtgcacatg atcaaggctt gctgcagtgt cagtctctctg ggcttaaagg 62640  
atcctcctgt ctcagtctcc caagtagctg ggactggagg taggtgacac tagcctggct 62700  
cactttaaaa acatttttttg tagagataag gtcttgccat gttgcccagg gtggtctcaa 62760  
actcctggcc tcaagccatc ctccctctc agcctcccaa agtgctgggg tctctggcat 62820  
tcaccaccgc ggacaacctt tttttttttt tttttttttt ttaagctaa attttgttga 62880  
atatttgat aggcaataca ggcatatggg acaaaattaa aagatgcaaa agggttatgc 62940  
acaagagaag tacatttctt aggcattcct ggcttccat tttcccttcc tggaggcagt 63000  
tttctgattt attttctaca aggattctgt ttaatactg gagaatatct gacctgttgt 63060  
actttacttt agaatggcag gaagctgaat gactcatggg catttttccc tttgtgaagc 63120  
tcattgacat tcttctctc caatacctta actatggcat gttttataat ttgcttttgt 63180  
ttttgcttta tcacagtatt ttcctatgtt ttttatagtc ttaattttta agcactgctt 63240  
taggtatcta ttaatagttc agaaagttgc gaagattaca agctcatatt tgtgaaagt 63300  
tctggcacat aatagggtgat caataaatat ttccttctag cttgtctgtc ccctatctcc 63360  
cactggttgt atgtatgaaa caaaaaaatg aaggagaagg ctgagcatag tggctcatal 63420  
ctgtaatcct agcacttttg gaggtgagg cgagcgaatt gcctgaggtc aggagttaa 63480  
gaccagcctg gccaacatgg tgaaaccccg tctctactaa aaatacaaaa attagccggg 63540  
tgtggtcaca ggcgtctgta atcccagcta ctgaggaggc tgaggcaaga gaattccttg 63600  
aacctgggag gtggagggtg cggtcagtcg agatcgcgcc actgcactcc agcctgggca 63660  
acagagtgag actttttgtc acacacacac acacacacac acacacacac acacacgtga 63720  
aataaaccta tgaaccaact aatgcagtgg attccaaaat taagattaag cttgtgtaag 63780  
ttgtaatgtt tcttgatgta cccatttatt tgagtggaaa cagattcttt tcattctttg 63840  
aaatcacttt gctgagattt ttttattttt tttatttttt ttttgagac agagtctgcg 63900  
tgtgtcgcgc agactggagt gcagtgggtg gatctaggct cactgcaacc tccacctccc 63960  
gggttcaagc gattctctct cctcagcctc ctgagtagct aggattatag gcatgtgcca 64020  
ccacactcag ctaatttttg tatttcagta gaggtagggt ttcaccatgt aggccaggct 64080  
gggtctcaaac tctgacctc aagcgatccg cctgctcagc ctccctgagt attgggatta 64140  
taggtgtgag ccacgggtgt cgcgcaagct gagacatttt taagaaaatg tttctgtttt 64200  
tttgtttatt tgtttgtttt gagatggagt ctactctgt caccagggt ggagtgcagt 64260  
ggtgccatca ctgcaacctc tgctcctgg gttcaagcaa ttctctgtt ccagcctcct 64320  
aggtaactgg gactgcaggc ttgccaccat atacctggct gattttttgt atttttagta 64380  
gagatggggg tttaccatgt tggccaggct ggtcttgaaac ttctgactca agcgatctac 64440  
ccacctcagc ctcccaaagt gctgggatta ctcccacagc acctgctcag aaaaggtttc 64500  
ttttcttttc tttttttttt tgagatcagg tctcactctg tcgcccaggg tgtagtgcag 64560  
tcgcgcaatc tcagctcact gcaacctccg ccttccagggt tcagggtgatt ctcttgctc 64620  
agcctcccaa gcagggtgga tttcaggcat acaccaccat gcatggctca tttttgtatt 64680  
tttagtagag aggggtttca ccatgttggc caggatgggt gcgaactcct gacctcatgt 64740  
gatccacccg catcagcctc ccaaagtgt gggattataa gcgtgaatca ctgcacctgg 64800  
ctagaaacat cttctaaagc ctaatctttt ttttttttcc ttatataatt taggttgact 64860  
atgtaaacc aaacacata gggtagaaac tcgtgaaaaa tatttttgag gatattcttg 64920

caaagtgttg tgcctcacgg tgctggatat ggatgtgtgc ttagtgtcag tgcataagatt 64980  
taggattttcc cacctgtatg tatgcttttg gtgagtcctt ttaggcgata tgctcctcatg 65040  
ttcaaggagt aatggcatac tggttcattt aaacccatgt tttaatccta atttaagacc 65100  
gatttacttc ttcttggagc taatttctta acttttctga tgatgttttt gttgcttaag 65160  
ttaagactaa tataacacag aagtcttact catccttttt gatattagag attttggttt 65220  
attaatctag tggaatttta aatatcattt tacatgttta ctctcaagat ctgatgattg 65280  
actgactggg tgcagtggat cacacctgta atctcagcac tttgggaggc caaggcgggc 65340  
agatcacttg aggtcaggag ttcgagacca gcctggctaa catggtgaaa ccctgtctgt 65400  
agtaaaaata caaaaattag ccggacttgg tgggtgcgtgc ctgtaatccc agctactggg 65460  
gagacagagg tgagagaatc acttgaaccc cagaggcgga ggttgcagtg agcctagatc 65520  
actccattgc actccagcct gggcgacaga gtgagactcc gtctcaaaaa aaaaaaaaaa 65580  
aaaaaagaag attgaattaa gggcaaactt ggaacaggcc agtttcccat tatattgcct 65640  
ctctgaaaca agtgaaagag ttttctttat gaggggtgtt ctttttaatt taatttaatt 65700  
aatttttatt tatttatttt gagacagagt cttgctctgt tgcccaggct ggagtgcagt 65760  
ggcatgatct cggctcactg taacctctgc ctcccagggt cagggtgattc tctgctca 65820  
gcctcccaag taattgggat tacagatgcc caccgccaca ccagctaatt ttttgtattt 65880  
ttagtggaga cggggtttca ccatattggg gaggtcgtgc ttgacctctg aacctcagat 65940  
gatctacca cctcggttc ccaaagtgtt ggggttacag gtgtgagcca ctgtgctggg 66000  
ccttcttttt aaaaaagggt tttctggcca ggtgcggtgg ctttaatcca tatgtgtgag 66060  
accaggcacg gtggctcatg cctgtaatcc cagcactttg ggaggcagat cacctgaggc 66120  
atgagaagtg cttgaactag ggaggttaaga agttgcagtg agccaagatc acaccattgc 66180  
actccaggct gggtgagagt gagactctga aaaaaataat aataaaaaatg gttttcttac 66240  
ttttatgact tgaattatgg aaagttttta gaatgtgact cttttctcag gaacaggatg 66300  
gctacctacc tccccccat ccttttctg tatgctatgg attatcagac ccctcacttg 66360  
ggttcctctt acatcaccaa ggtgtgcttg tcaataacca gaaaccaaca ctgatacatt 66420  
actaagttcc acattttatt tagattccaa tagttttccc attaatgtcc atttctgttc 66480  
tagaatccaa tccaggttac tgtatgcatt gcatttaatt atgatgtctc cccagtttgc 66540  
tgtttttcac atgactagac tagggttatg aatttgggga attcatatga ttggagtggg 66600  
gggaggtgta gtgcatgcta ctccatgatt tattgctggg aatgttaatc gtggccaagg 66660  
ttgtttccct actgtataca ctccaccct tccatactta tttttttgga aacaagttag 66720  
taagtccaac ctacactcaa gtcggggaga ttaagctcc atctcctaga ggggagtggg 66780  
gaatattttac ataaattatt tgaaattctc ccacaggaa gctgcttttt ctaggaaagg 66840  
tctttgcccg ttattctacc gacttactgg actttttatt tgacttttta aaaagaagct 66900  
ctttagataa aatctccata aatacttaga taaattactg caattttata tttgcatatg 66960  
aacaagtgga gttttgttga tgcagggttg cattggcctt cactatcaaa acaaatgtct 67020  
catctgatca gcatttataa atagtgggt accagaatca ttaaggctca taaagtcttc 67080  
cgtttttatt ttggctattc tgggtggggg taacaatatt aacaacaata aaaattcatc 67140  
ttattttact ggagattcct gcaaagtggc agaataccag gacaaggaac caattctggc 67200  
acacatgtgt caaacaagaa agctctggga atgtaataat gtaataaagt gtggtcgaga 67260  
gagctctggg ctggaatagg catgggggtcc ttgacactat cacctctgcc aagacacttc 67320  
atgtgtatgg tttccccacc tttaagtaaa ctctatttat gaagttcttt gtagctttaa 67380  
tagtttctag agttgcttga atttgggggtg acttcttgca agggtaaatgt gaagtagtgt 67440  
cacatggaca gtaacggaga ggtatctgct gctgccattt atataataaa tctgaatttg 67500  
gaggcagaga aaggaggcag aaagtttggg aaggacgtta ttgcaacctg aataagccac 67560

ttagggccta gatcagtggt tgggaatgtg ggagaagaca gccatagtca agaagcgtga 67620  
agtagttaat gttgagttat ttttaggtg tttttctgtt ctttttactc cagacactga 67680  
ctttcgtaat aagataaata atctggtgag tgcgatgctc atgggtgtgct gaggcattta 67740  
gccaagcagc ttatgcatgt attatctcat ttaattctgt cactatgagg tagagattat 67800  
ctttaaccat tggttccaaa tgagaaagcc ctgtttgaaa taatttttcc agtgtattta 67860  
aattttgtag gtacacacct agaatttcaa actgatggtc tgagttctga gcccatctgt 67920  
ttaattcatc ctaatgggtt atcttgtgga tatgctgatt atagtaaaac aactttaaga 67980  
atgtgatata cattatgagt gatacttgtg gtttgaatgg gtttttttaa acaacatgaa 68040  
aatttgaaga tattttgcat agatttgctt ttgggtaaaa cttttttttt tttcatatct 68100  
tctgtaatta acttctttcc cccctttttt gagatggggt ctcatctgt caccaggct 68160  
ggagtgcagc ttgatgtatg atcatggctt actgcagcct tggactcctg ggctccagca 68220  
atcctccac cttagcctcc caagtagctg gaagtacagg agtgcaacac catgccctgt 68280  
agagacggag tcttgctgtg tttcctaggc tgatctctaa ctctggctt caagtgggtc 68340  
tccctacttg gcctcccaca gtttgattag agatgtgaac cactgtgccc agccaaaatt 68400  
aacttttta tctattctaa atcaagaaga aaatagatgt gtcttttctg ggactagtaa 68460  
tgagaaattg acagcatctg gtttttggtt gttgttaaag tgtgattatt actatactgg 68520  
tatgctgata aagagattgc atggtaattt tcatcctttc atctaaaaac ataattattat 68580  
aaggatagat atttccttag tatggggtga cttgtgtaga ttactatctc ataaattggt 68640  
tcagattagt ttttaaaaag ggcaaaattg tatattagt atattgctca gctctttttc 68700  
aaagggataa agcactgtaa agagagaatg tgggggtaga agtctaataa aatcctcaca 68760  
aatctggatc agtaacagaa aagtcagtta taggccagg gcatggctc atgcttgtaa 68820  
tcccagcact gtgggaagct gaggcagggt gattgcttga gcccaggaat tcgagaccag 68880  
cctgggcagc atggtgaaac cctgtctgta ctaaaaatac aaaaaattag ctgggcgtga 68940  
tgggtgggtac ctgtagtct agctacttgg gagtccaagg tgggaggatt gcctcaaccc 69000  
aggaggcgca gggtgcagt agtcgagatt gtgccgctgc actccagcct gggcaacagg 69060  
gtgagaactt gtctcaaaaa agaaagaaag aaaagtcact tataattatg tgggctttta 69120  
aaaacctgac tgatagtgt ctgttttttag tttcaccaa agataggtag tacttccatc 69180  
ctctttcatg aaactacagt atgtctatc tcaatgtttc aaaacctgt aagactcaga 69240  
gggaagaaat agtttctcat taagaaaaat ttagtcaaca gtataattat gtattaagt 69300  
cttcaggaaa agcaatgggg gaaagtattt cctacagtat taggtctctc attagagggt 69360  
agcagaggga gttccttcag cgcaggacgg gcatttctgc aggtgaagt ggatgagaca 69420  
accggtata gcaagatgt agcatatgta gttagcttat ggaaacataa tttgaattgg 69480  
acatgagttt ttgtttgtt ttgaggcaga gtcttgtctt gttgccaggt ctctattgca 69540  
atggcacgat catggctcac tgcagcctt aactcttgg ctcaaggagt tccccacct 69600  
cagcaaccca agtagctgga actacagggt tgagccacaa tgccttgcta attttttttt 69660  
ttattttttg tagtgacagg gtctcactt gttgccaggt ctggtctcaa attcctgacc 69720  
tcaagcaatc ctccagcctt ggctctcaa agtgctggga ttataggcgt gagcactgtg 69780  
ccctgcctat gagttgttat agactgggtg attttgtagt aggcagcagt ttgttgtcat 69840  
ttgcatgttg tacttcatgt atggttttcc caagtcatta aatgtacata cttctgcaac 69900  
tttttatttt ttattttttc tggtgaaaag atatacatat atttagaatt agccagctgg 69960  
actcagttta gatgaccca attttggttg caacatccaa agcatcataa tcaggagcta 70020  
gttgaacgta tgctccttc tctccatcag gccgaatcag ggtgttgacc gggccacatc 70080  
aatgtcatag agcttcttca cagcctgttt gatctgggtc ctgttggtt taacatctac 70140  
aatgaacaca agtgtcttgt tgtcctcgt cttcttcatg gcagactcag tggtcagcgg 70200

caacttgatg ataatatggt ggtcaagctt gtttctcctg gggcgctct tctgaggata 70260  
tttgggctgc ccctggagtc gcagtgtttt gggccgctgg aagggtgggtg atgtgtggat 70320  
cttttttttt tccggctgtg gacgcctttc aacactgctt tcttggcctt cacagccttt 70380  
gctttggctt cggcttgagg aggggcagga gcttccttct ttgctttcgg tgccatcttg 70440  
tgaaaagggc tctgcagctt ttaatgtgta cagtttccat gatatgattg taccagatta 70500  
taagattatg ttggacattt gagttctttc caatttattg ctgttttcag cagcacttga 70560  
tgaataactt tgtagataag tttttgcaa gctttatgaa tattttcttt tgggataaat 70620  
tgctagaggc tcgggtaaac attgccaaac tacccttcag aaagcctgaa cttatttaca 70680  
gtacacttat ggtatggttt ggctctgtgt cccacgcaa atctcatctt gtagctccta 70740  
taactccac atattgtagg agggacctgg tggtagataa ttgaatcatg aggccagatc 70800  
tttctgtgct ttttctcttg ctagcaaatg agtctcatga gatattctaat agttttaaaa 70860  
aggggatttt ccctgcacaa gtgctcctct ctgcctgctg ccatccacgt aagactgagt 70920  
tgctcctcct tgccgtccgc catgactgtg aggcttcccc agctgcatgg aactgttaaa 70980  
tccagttaaa cctctttgtt ttgtaaattg ccagctctct ggtatgtctt tatcagcatt 71040  
gtgaaaacag actaatgcaa cttctctcaa catttctagt ggacaggttt tctatgttcc 71100  
cttctaacat cctgttttgc caaacttttg caaagaattt catattgtct tttttcctaa 71160  
ttcaaccttt tgtaaggaac tcttacaaca ttggtgtaaa ggtatgtcct tagctgggtg 71220  
tacagtagtt agaagttttc tctgggttat ggtgatattg ggagtaattg tgttatagga 71280  
taatctgggc tctctgtatt tcataagatt gtggtgctc accatcagtc agactgtagc 71340  
ttcagggett tttttctct tggattgctt ggtggtgaaa tatcaataca gccttgccca 71400  
ttctgattag tgtgttacat tactgatagg gcagtgttaa gagaaatagg agaaacctga 71460  
gcctaaaaca tttcactgtg aaattaattg gtctctgaag tgttttgtct ttgttttaggt 71520  
ttgacgatcg tatgtggcga aattacattg gtggtaaatg ataagcttgt tatattgata 71580  
acatggaaga aaagtgtttc tggtttctct tagagaaaat cgattcccag tccaaggcac 71640  
ctgtgagtc aagagaatga gagaaggtaa gatgttatta gttagaaact gactatacaa 71700  
ttccagtttc tagtgcagag ttgacttcag tagcatttga ttagcatcta acttccttct 71760  
tgggggaatc agaaaaggga catagattag gcattagctg aactcagatt actggaaagt 71820  
gattgagtc gttctatttt ttatttttat tttttgagac agtctcactc cgtcaccgcg 71880  
tggagtgcag tgggtgcagtc ttggctcatg tcaacctccg cctcctgggt tcaagtgatt 71940  
ctcatccctc agcctctcta gtagctggaa ttgcagggtg gagccaccac gccagctgg 72000  
gtttggtttt ttttgcatth ttagtagagc caggttttca ccatgttgct caggctgttc 72060  
ttgaaatctt gacctcaa cgtctaccg cctgagcctc ccaaagtgtt gggattacag 72120  
gtatgagcca ccatgcctgg ctttgagcca gttctaagg aaattattca tttatttttg 72180  
tcagcttgta atattgcaa tcatagtatt tttgaaataa ccttcccatg ggaatagagt 72240  
ttatgccctt aaagggtaga gtgctattat aaagagagat acaagaagag agggagtggg 72300  
tggcattcca gagatcaggt ctacatgagt tgctgcccag ccttcttgggt tctcaaactt 72360  
gtcggctctg attgctgtgt ttaaggaaag ggaatagaac aatatactcc ctttctaaaa 72420  
tttttcatta attggctacc taacctatgt tatgcatatt aatttactta acatttatga 72480  
agtacttata atatgctaga cactgaagat actatgggtc gaaagatggc aaataataga 72540  
ggagaaagaa aatcataatt gctattattt atgaagtatt aagtacaggc agttcttaag 72600  
cattcgactt agtatttttc aactttaaga tgggtacaaa gtgatacaca cttagtagaa 72660  
actgtatttt gaattttgat cttttctctg gctagcaata tgtggtgtaa tacccttaca 72720  
tgagatattc aacccttttt ttttggtgtt ttttgagac agagtgttgc tctgttgcc 72780  
cgggctggaa tgcagtggcg caatctcact gcaacctctg cctcccggt tcaagcgatt 72840

cttctgcctc agcctccccga gtagctggga ttacaggcat gcaccacat gcctgactaa 72900  
 ttctgtgttt ttagtagaga tagagtttct ccatgttggt caggctggtc tcaaactcct 72960  
 gacctctggg gatccacca cctcagcctc ccaaagtact gggattatag gtatgagcca 73020  
 ccacacctgg cctcaacact tttttttttt ttttttttaa ataaaatagg ctttggttaga 73080  
 tggccttgcc caactacagg ctaatgtaag tgttctgagc atgtttaagg taggctaggc 73140  
 tatgatgccc attaggttag gtgtattaag tgcatttttg gattacaata ttttcaattt 73200  
 gtgatacatt tatcaggact aacactgttg taagctgagg agcatctgta tgtaccagg 73260  
 acttaatat aaggtggcct ttctaattct catagaaacc catgcaagg aggcattatc 73320  
 ctctccattt ttcttttagg ttagtgaagc taagtagctt gttcgtcatc actcaataac 73380  
 aaagtgggta aaatgggata caagtccacc atgggattga gtcccagatg ggagttcaga 73440  
 tgctgaccag tgttaggac taagtgaag tcacttaact cctcttttca aatgtggact 73500  
 acaacagttc ttatctcata gggctttttt ggtgtgtgtt atgtgacaga taggtgaagt 73560  
 ggtaggcca gttactggca cgtagtaata gtttaataatt atattagatc atactggctc 73620  
 aaaagccatt aatagtagtt actgctggta gttgagtctt acaaagccat tgttttctcc 73680  
 acatgtcttt atgcaaatca ttaatgaca gagcctaaac tgtgatagag aaggtgtccc 73740  
 cagtgttatg agagtattga agaggaatgg actgctaacc tggactagga gagtaagcag 73800  
 acttaciaaag atgggtgatcc ttgaggggtc ttgaagcatt attaggagtt agctgggtggg 73860  
 aaaagataaa gagaagggaag tgggtagag gaaagtcacg gcaaagcaaa aaggcccaga 73920  
 aatgtaatga ctgtgtgagg gatagagtcc tgagggtgag acatagggtta gaaagataag 73980  
 caggccagat tatgaagggt cttgcatgcc atgggttttt tccctaaaga cagcggggga 74040  
 agcagcagaa ggacttttta ttttggata atttttagatt tacaggaaag ttgtaaagat 74100  
 agtacaaaga gtttccatat accctacacc cagtttcccc gttattaaca tcttacatta 74160  
 gtatggtaca tttgttacaa ttagtgattg attgatttgt aattattacc tgaagttcat 74220  
 aatttattct tatgttctta gtttttacct aataccctt ttctgttcca gaatcccatc 74280  
 gaagatacca cattacattt agttgccttg ttgcttttagg ttctcttggt ctgtgacagt 74340  
 ttctcaagat ttttcttggt ttgatgatg ttttagtttt aagaagtact aatcagaaat 74400  
 tttgcaggat gtttctcaat tgggatttgt ctggcatttt tctcattatt gtactaagg 74460  
 tatgagtttg gggtaggaag accacagacg tagagtcca tttcatccca tccaagggtta 74520  
 cataccatca acatgactga tgactgctca tgttgaccag tgttgcttg cgagagtact 74580  
 tacagtggaa acgtctgagt ttgtcagaag tttcagctgt aaagtactct tccatctcct 74640  
 gctccgcccc tttccataca acccctttt ttggaaagag gtcactatgc acagcccaca 74700  
 ctgaagggga agggagttat gatccatctc tcaggaagga cttttaacgt ggaaagtgat 74760  
 ttgatcagaa ttatgttcca gggccaggca cgggtggtca tgcccataat tccagcactt 74820  
 tgggagggga ggcaggagga tcagttgagc ccaggagttt gaggtgcggt tgagctatgg 74880  
 tcatatcact gcactccatc ctggacaaac agggcaagac cttgtttctt aaaaaataa 74940  
 agaatgggct gggcgtagtg gctcacacct gtaatcccag cactttggga ggccaaggca 75000  
 ggtgatcaa gtgaggtcag gagttcgaga ccagcctggc caacatgggt aaaccccatc 75060  
 tcggctgtgg tatatgaaaa ctagccgtgc gtggtggtgg gtgcctgtaa tcccagctgc 75120  
 tcgggaggct gaaggaggag aattgcttga acccaggaga tggaggttgc agtgagctga 75180  
 catggtacca ctgtgctcca gccttgga tagagtga ctctgtgtgg ataataataa 75240  
 taataatgat aataataaaa aataatgaat tgtgcttcag aaagattgct ctagctagt 75300  
 gagaaactga atctggggag accgaattta gcctgcaacc ttaagacag gacaagatga 75360  
 gaaacatga agttggaaac tgaaggctcag tggcagcagg gttggagagc gatggatttg 75420  
 agaaaagtcg aagagattag tggatggggc tcagtgggtt ttgcagagtg tgtgtgctcg 75480

agtgctagta gcagatgagg ggactccaag atgacttgcc agccatattg ctgggagttg 75540  
gtgactatac aagtgatagt gttaattttt ttaggtaaac aagaagaaac agcttggtgt 75600  
tgatagtggg aaggggtgaat gagagggcaa taagctgtgt caagatgctt tttgagttgt 75660  
tcttggttta tatgctgatt ctgtcttgag ataaagattt agaagtcatt accataataa 75720  
atgtgggtttg agaaatttgc agtggttagat gttatggcat aggaagagta attaatacca 75780  
gatgaaaaag aggaacccag ggaacactga tgtttaaaaa agtggttagag aaaacgtggg 75840  
gaaaggtcaa cttttgttaa aatctcttat tcatgtggct gtttaattcc tctacatcac 75900  
atcctctctt ctgttcaccc tggagggtga aaacactata ccaaaggaca gaacacacta 75960  
tacacgttta gaacatttct tctgaggata gttactgctg cggtaatgca ggtactggtg 76020  
tggtgatgct aatgagaata aatcttgcta aaattaagaa tcaagacagc tgaagacctt 76080  
tggaagcaa ttgaccgaac agtactactt cagggtcagg aagcagtggtc agtacaagaa 76140  
tgaagaatgg attctttgtt accaagcaat taacaatcta gttgggtatt tactgggtaa 76200  
tacaatacaa agtaagcaat ggtaattggg tatgtgtatg tcagttgtgg catgatagtt 76260  
tctacctgg ctatctgctg aagcccttct tgtctgtctt ctctccctgt ccagctttgt 76320  
tcttgccctgc ctttttattt ttacagtcc ctctccctt ttgcaggggg gcggggcggt 76380  
gctagtggga gtatacatc cctcgttaa ccacctgtga tgtaagttaa gatttttttt 76440  
taaagtgttc tgttttttaa aaacaagtga atagagcatt tattatcatg gaggataaaa 76500  
tcctcaaaga aaaaatctgt ttagctttta aattcttcgt gaaatcgcta atctttgagg 76560  
cgaaaaattt tttcccgtaa atttaggaga acatgagatt tgagttttta aggactttat 76620  
agcgtgccta tgtttattgt agattttaat tccagagagc tgggtgattgg aaatcatgga 76680  
cctatttggt ccaatttaaa ctttcagcat ttaaaaagga agagataaga gagaaccaga 76740  
caggaggtat atagtttgta gaaagataca gatatttaat gtaatccag cactttgaga 76800  
ggctgaagcg ggcagatcac ctgaagtcgg gagtttgaga ccagcctgac caacatggag 76860  
aaacctgtc tctactaaaa atacaaaatt agccaggcgt ggtggcacat tcctgtaatc 76920  
ctatctactt gggatgctga ggcaggagaa tcgcttgaa ccaggaggcg gaggttgag 76980  
tgagctgaga tcgcgccact gcactccagc ctaggcaaca agagtgaac tcggtctgaa 77040  
aaaaaaaaa aagagaaaag aaaagataca ggtattgaaa taccaaagtt gcttctgact 77100  
tcctcatttt atagagagtg aactgttgct agttgagaat tcttaagcca ttttaactaa 77160  
atgctaaaat acttaatgtg gatatcatgg ggaggaaaaa tgttctttac attctttggt 77220  
ttttgatcat aatgtatggg gtctttaaaa tctaggcatt gtagcataat ggtaaacacc 77280  
accgactctg tcttctgctg ttttcatacc tcttccttaa gcttcgactc agcttcactg 77340  
ctcatagggt tgatgttggg cagcttactt catctctctg tgctttaatt ttctcatcta 77400  
taaaatggat agtcgtaaga ttgaaatgaa ctaaggcacg tcaaagtaca cagtgcctag 77460  
cacatagtaa gcatttataa ctgttacagc aatagtaatc atatatactc ttgccattcc 77520  
ctttgatttc tatctttttg attaccaaac gtcagaagcc aaaaattttg gagtcataaa 77580  
acgttttttg gtccctaaca taattaagtt aaatttactc atgcgtagca tctcaggata 77640  
tattgaaagt atgggtggcc agtccataca ttttaagaata agaattataa gaatttagag 77700  
acagagcctt gctttgtacc ccaggctgga gtgcagtggt gtgacctcag ctactgcaa 77760  
cctctgcctc ctgggttcaa gcaattctcc ggcctcagcc tcctgagtag ctgggattac 77820  
aggtgtgtgc caccatgccc gactaatttt tatattttta gtagagacgg ggtttcacca 77880  
tggtggacag gctgggtctc aactcttgac agcaagtgat ctgcctgcct tggcctctcc 77940  
caaagtgtc gggttacagg catgagccac ttcacccggc cagaatttac ctttttaaaa 78000  
agctttattt attatctttt tgagtcctac tgatgagtaa tttggagttt catgtgtcct 78060  
ttttatatag gtattagagt atgacaatga catctataat gggatagaat ttaaatttta 78120



aagcaaacca aacagctgtc ctatttatga gtgctaactt aaagatgggt tgataacatg 78180  
aaggtaacgg tactatgaat gtgaatgtaa tgaccctata tatacacaat aaatatacac 78240  
aatatatata cagttctctg ttataacttt tcagcttcag ttttcttggt ctgaatttaa 78300  
gcaagaaggt agcatttaat tcatagctta ttgtgctact cctgttttca tacctcttcc 78360  
ttaagcttct ggtaaaatta aaacatttca agtagagttt aggattgtag aaaacaaggc 78420  
atgttggttaa aacctgtaat tgtgagcgtg tcttaaaatg acaagattat tatatatata 78480  
tatatatatta tttattttac ttattttattg attgattttg agatggagtc ttgctcttgt 78540  
cgcccagggt ggagtgcagc ggtgttgtct cagttcactg caacctctgc ctcccgggtt 78600  
caagcaattc tagtgcctca gcctcccaag tagctgggat tacaggcacc tgccaccatg 78660  
cctggctaatt ttttgtattt ttagtagaga tggggtttca ccatgttggc caggctgggtc 78720  
ttgaactcct gacctcaggt gatccacca tcttggcctc ccaaagtgtc gggattgcag 78780  
gtgtgagcca ccgacccag ccctatctta taattattga tagcaagaaa agcatattca 78840  
ccatttggtt cagttctcat tgtttctgct tcccctctctg tgtttatcca tttggccatt 78900  
ctctttcttg tgttcatctt tctgttctga ctcaggctcat tgaggatatg gttggaccct 78960  
gaatggtaga aacacaactc cctcttcccc tcgactccac agacttaatg tgatttttta 79020  
gggtataggg gaggggggta tgagaatgtg ggaacccaag cagggtgtct aatggctgtg 79080  
gagtaacctg tcttctcctt ccagttagtt tctgtgtttt gtttgtttgt ttgttttaaa 79140  
gagacaggggt ctctccctct gtcgcccagg ctggagtgcg gcagggtgat catagctcac 79200  
tacagccttg aactcttggg ctcaagcaat cctttagcct caccctctga agtagctggg 79260  
actacaggtg cttaccacca tatctggcta acttttaaaa actttcagag ataggggtctc 79320  
actgtgttgc ccaggctggc cttgaacttc tggcctcagc tgatcctccc acctcagcct 79380  
cctgagtagc cttgcttttt aaataacagc ttactacaa taaaattaac aaaacacgca 79440  
gttcacttat ttaaaatatg caaaattcag tggttttcgg tatattcaga gttgtgtaac 79500  
tatcaccaca aatcaaattt aaaacatttt atcatcccat gaagaaatgc tgtacctgtt 79560  
agcagtggca ccctgttatt tcaaagccc tacagcctct ggcaatcact aatcatcttt 79620  
ctgtctggac ggttcatgta aataaaatca tacaataggc tgtggatttt tgtgcatgtg 79680  
actggctgct ttcacttagc atagtgtttc aagtttcata ctgagcatgt gttagtgttt 79740  
tattttcatg gcagtataaa gttctgtcat atagacatac tgcatttttt tattcaatcg 79800  
gttgatgggc atttgggttg tttctacctt ttagctgttg agtaatgctg ctatgaaaat 79860  
ttatatacaa attattatgt ggatatatgt ttttatttct ttgggctgta tacctaggag 79920  
tggattttct gggttatatg ataatttttt ttcttttttg agatggagtc tcgctctgtt 79980  
gcccagtctg gagtgcagtg gtgcgatctc ggctcactgc aagctccacc tcctgttacg 80040  
ccattttcct gccttagcct cccgagtagc tgggactaca ggcgcccgcc accacacca 80100  
gctaattttt ttttgtattt ttagtagaga cggggtttca ccatgttagc caggatgggtc 80160  
tccatctcct gacctcatga tccgcccgcc tcggcttccc aaagtgtgg gattacaggt 80220  
gtgagccacc acgcccggcc tctgggttat atgataatct tttgaggaat ggcaccattt 80280  
tatattccca acatttttagc caaataatct gactaaaaac aggcaaaaga gctgaataga 80340  
catttctcca gggaagatac tcagatggcc aataaactta tccaatatgc tcaacctctt 80400  
tattcagga aatgcaaatc aaaaccacag tgagagacta cttcacacct gctggctaga 80460  
atcaaaaagt cagataataa caagtgttg tgaggatgtg tagaaattgg aactctcata 80520  
ccctgctggt gggaatgtaa atgtaaattg ctgttctgct cccaaacagt tgacaagtaa 80580  
aatatagcat tatagagtga gaaataactc agagtttcag agtagaactg aaaatatact 80640  
agaagagtat tttccttagt gttggactag atgattttta atttgaacac agacattgta 80700  
tcaggtaaca tcaaatcata cagtgaaggg tttctcacia tgtacacaaa atagtatttg 80760

tctgcttaac actgggattt gcaaagaaca gtgaaatatt acagtgttac aaagcaagat 80820  
cttctctctt ttaaattgct gttaacctga ttttaagaat atctttattg tatacatctt 80880  
attctttaaa tgtaccccat aactaatagt accaatttta tgttttcaac atttaagtta 80940  
tgatattata catttccttt aacttgcttt ttctattcaa actggttgat agctgtagat 81000  
ctgattttgt tttctatatt taattccctt gaagtcacat accacgggtt atccaatccc 81060  
tgattttttt tttttttttt ttttaagacag agtctccctc tgtggcccag gctggagtgc 81120  
actggcagga tctcggtcca ctgcaagctc cgtctcctgg gttcacgtca ttctcctgcc 81180  
tcagcctcct gagtagctgg gactacagtc gccactacc atgcccggct aatttttgta 81240  
tttttagtag agacgggggt tcaactgtgt agccaggatg gtctcgatct cctgaccttg 81300  
tgatccgccc gccttgacct cccaaagtgc tgggattaca ggctgtagcc atggctcacg 81360  
tgagacagag ttctactctt ttgcccagg cttagagtgc atggcacgat ctgggtcac 81420  
cgcaacctcc gcctcccggg ttcaagtgat tctcctgcct cagcctccca agtagctggg 81480  
attacaggca tgtgccacca tgcctggcta atgttggtgt ttagtagag acagggtttc 81540  
tccatgttgc tcaggctggt ctggaactcc cgacttcagg tgatccgccc gccgccgcct 81600  
cgccaagtgc tgggattaca ggggtgagcc accgcgccca gccccgttg atgtatttta 81660  
aagattttcc tctatttttg tcctatagac gattctgtag taactatcta tgttattatg 81720  
tagatagggt tcttcagata aacagaacta ctagaatatg tatgggtgta tctatgtgta 81780  
catatattca gagatttatt ttaaggaatt ggtttatgta gttgtagggg cctgacgagt 81840  
ctgaaatctg tgcaggccta taagaaggag ttagggcctt agtctcaact tctggaaaaa 81900  
tctcaatttc tgcctttatg acctttaggt gaactggata aggcccaccc acattatgga 81960  
gggtaatcaa gagattatag atgttaacca tatctactaa atacttttca cagtaacacc 82020  
tagattaatg tttgattaaa taactggcta cttagagtcta gccaaagtga cacagaaaac 82080  
taagcaacac actgtccttc catgtgcacc agagactttc agactttaaa aaacctccac 82140  
caatagttta tacacatact taatgaaacc atatgctgat gttttctggt cttattcttt 82200  
tttttaaaat gctgattagg aacccaaaat tcaatgtgag tagatctgac cagcaatttg 82260  
aaaaacattg catatatatg tagtctagaa atggaattgc tggcttgcaa ggtatccaca 82320  
cgtccacttt actatacatt gccagttttt ttctctgaag tagttgaacc actgtacagc 82380  
cctactagcc gtgtgaataa accttctttc ttacccctt gatggcaact ggtaattgca 82440  
gtttccttgt agacctaatt attccagata ggtctgggct tattttttta ggtctttaaa 82500  
acttgataaa aatcgacttt aggcggggca cgggtggctc tgcctgtaat ccagcactt 82560  
tgggaggccg aggcggggcg atcatgagac catcctggct aacacggtga aaccctgtct 82620  
ctactaaaaa tacaaaaaat tagcagggcg tgggtggcagg cgctgtagt ccagctaca 82680  
ggctggggca ggagaatgac atgaaccggg gaggcggagc ttgcagtga ccaagatctg 82740  
cactctagcc tgggcgacag agcaagactc cacctcaaaa aaaaaaaaaa aaaaaaaaaa 82800  
gtcaacttta aacaaagaga cctgcctgtg ttggcacctt cagcaaatat tagtatctac 82860  
ccagaaatta atgacatttc tttattttca ttgtatttat attttttgat ttacatatag 82920  
caaaactgaa taatttttg tgcacatttt tgtgagtgtt aagacatgta tacaatactc 82980  
ctcccttatc catgaaagg atgtttcaag acctctggtg gatgcctgaa actgtgggta 83040  
gtactgaacc ctatatatat actatggttc ttccatgca tacataccta tgataaagat 83100  
taatttataa gttagacaca ctgagagatc aacaacaaaa aataataaaa tgaacaatta 83160  
taacaatatg ccaacatcgc caatactttg gggctgtag taagtaaaat acaggggact 83220  
tgaacacaaa tgctgcgatg ctatgacagt ccagctgata actaagatga cccaagtgc 83280  
taatgggcac atagcaccta cagaggggat gtggtgcaca aatggatgat tcaggacta 83340  
ttcctggaat tttcatttga atgttttcag accacagttg atcatgggta actgaaatca 83400

cagaaagcaa attccaatgc ggggcaccac tggagtttca tataccacca ccacaattag 83460  
gataccaaag agttccagct cctccaaaag ctacctcaga ctttcttaag cttcctcaca 83520  
cttctagacc ctggaaacct tggatctatt cattatccct gtacttttgc ctttttcaga 83580  
gtgtcgtatg aatgaacttg tactggcttc tttcactcac tgtaatgctt tggaagtagg 83640  
tctaggttgt tgaatatatt agtagttcac tattttttgtt gctgtgtact gttccagtat 83700  
atggatgtac tacagttggt ttatccattt acgcattgaa aacatctgaa tatttcacag 83760  
tttttttttt tttttttccc caaggcagaa gaatttttct tagtacagaa caaaatgaaa 83820  
agtctcccat gtctactttt atccacacag acccggcaac catccgattt ctcaattttt 83880  
tccccaccct tcccgccttt ctattccaca aaaccgccat tgtcatcatg gcccatcccc 83940  
aatgagccgc tgggcacacc tcccagacgg ggtcgtggcc gggcagaggg gctcctcgct 84000  
tcccagtagg ggcggccggg cagaagcgcc cctcacctcc cggatggggc ggctggccgg 84060  
gcgggggggt gaccccccca ccacctccc ggacggggcg gctggccggg cagaggggct 84120  
cctcacttcc cagtaggggc ggccaggcag aggcgcccct cacctcccg acggggcggc 84180  
cgggcggggc gggggctgac cccccccca cctcctccc ggacgggggtg gctgccgggc 84240  
ggagacgctc ctacttccc agacgggggtg gctgccggac ggaggggctc ctacttctc 84300  
agacggggcg gttgccaggc agagggtttc ctacttctc agacggggcg gccgggcaga 84360  
gacgctcctc acctcccaga cagggttgag gcccagcaga ggcgctcctc acatcccaga 84420  
cagggcgggc gggcagaggt gctccccaca tctcagacga tgggcggccg ggcagagacg 84480  
ctcctcactt cctagatggg atggcgggcg ggaagaggcg ctctcgtt cctagatggg 84540  
atggcgggcg ggcagagacg ctctcactt tccagactgg gcagccaggc agagaggctc 84600  
ctcatatccc agacgatggg gggccaggca gagacgctcc tcaattccca gacgggggtg 84660  
cggctgggca gaggtgcaa tctcggcact ttggggggcc aaggcaggcg gctgggaggt 84720  
ggaggttgta gcgagctgag atcacgccac tgcactccag cctgggcacc attgagcact 84780  
gagtgaacga gactcgtct gcaatcccg cacctcgga ggcgaggct ggcggatcac 84840  
tcgcggttag gagctggaga ccagcccggc caacacagca aaaccccgct tccacaaaaa 84900  
aaaaaacga aaaccagtca ggcgtggcg cgcgcgctg caatcgagg cactcggcag 84960  
gctgaggcag gagaatcagg cagggaggtt gcagtgagcc gagatggcag cagtaccgtc 85020  
cagctttggc tcggcatcag agggagaccg tggaaggaga ccgtggagag agagggagac 85080  
gagagggaga gggagagggg gagctgtttc acagtttttg atgattgtga ataacgctgc 85140  
ctatgtgtgc aggtgctttt tttgtttgt ttgttttgag gtggtgtctc gctctgtcgc 85200  
ccaggctgga gtgcagtggc gcgatcttgg ctactgcaa gctccgcctc ctgggttcaa 85260  
gccattctcc tgcctcagcc tctgagtag ctgggtctgc aggcacacac caccacacct 85320  
ggctaatttt tgtatttttg tggagatggg gtttcacagt attggtcagg ctggtctcga 85380  
accctgacc tcaggtgatc ctgagcctcc caaagtgtg ggattacagg cgtgagtcac 85440  
tgctcccagc ctgtgtgcag gttttattgt gaacatatgc taattctgta gggatatagg 85500  
ctgaacagtg gggttgctag atcagtcatt tggtaaatat aattatgtct ttgtaaaaaa 85560  
ctgcaaaact tcccagaat ggctttataa ttttgcattt acaccagcag tgtatgagaa 85620  
tttcagttgt tcccattctt gtcagcactt tgtagtgttg atgcctttta ttttagacag 85680  
cctaacaggt aaataatggg ttctcatcat ggctttaatt tacattttcc taatggctaa 85740  
tgatgtagag catcttttca tctaataata cccctttata tctactttgg cgaagtgact 85800  
gttcaaatct tttggccatt ttaaaaaa tgtgttattt tccttattgt tgactttgaa 85860  
agttctttat gtattctgga tagaagtcct ttgttgcata tgcgatatgc aaatattttc 85920  
ttacagtcgg tagtgtatct caacagtgcc ttttgagag caaaagtttt taaattttat 85980  
ttttagtata ccattaaaaa atgtttgggtg gattgtgatt ttggtactgt atctaagatc 86040

tcctttccca atccaaggct aaaaagattt ccatgtgttt ttcttttagaa attctataat 86100  
ttttcagttt tacacttagt tctgtcatct gttttgagat aattttgagg tatggatcca 86160  
aattttttta aaaaaatggt tgttttggtt ttgcatgtga atattcattt gttcctgcat 86220  
catttggtga aaagattatt atttttggct tgattttgcc ttcgtgcctt tatggaaaat 86280  
catttgatcc tgtatgtgtg gttctgtttt tggactctat tccatttatt tccctttttt 86340  
tttctttttt ttttttgaga cagaatctcg ctctgtcacc caggctggag tgcagtgggtg 86400  
caatcttggc tctactgaag ctccgcctct cgcgttcacg ccattctcct gcctcagtct 86460  
cccagtagc tgggactaca ggcgcccgc accacgcccg gctaattttt tgtattttta 86520  
gtatagacgg ggtttcatca tgttagccag gatggtcttg atccccgac ttcatgatcc 86580  
tcctgcctcg gcctcccaa gtgctgggat tacaggcgtg agccactgca cctggccttt 86640  
tctctgtctt tatgccaata ccatacatc ttgattactg attttttgta attagtcttg 86700  
atttagatag tgtaagtctt ccaactttgc tctttttcaa aattgcattg gctgtctcat 86760  
ttactttgcc tttctttatg aattgtagaa tatttatcaa ttacggcaa agaaggtgct 86820  
acaattttga ttggagttgc attgaatctt tagagcagtt tgggaagaat gccttcttaa 86880  
taataagtct atatctatga tctatttctt catcttctta gatcatcttt agtttctctc 86940  
agcagtgttt tgtagttttc agtgtagaca tcttacttta tccctaagtt atttcatatt 87000  
tgatgcta at gatctttaat tttgattttt gatttttttt ttattgctgg tatatagaaa 87060  
tagaattgac tatttactat taatattatt tctacaacc ttactaaact tgtttattct 87120  
ggtaccattt tgtagattct acaaaatgta gattttctac acagataatc gtgcagtttt 87180  
gattgtacct ttccactgtg gatgccttta tttttgtttt acttttagact tttattggaa 87240  
atacagcagg acttattttgt ctttgtattc ctttgggggt cctccccac acataccttt 87300  
gatgactttt gtttttagatt ctttgtagcg ttagcattgt tctgaagtca gaactatgta 87360  
tatatctata aaaaaggat acttgggctg ggcgtgggtg ctcacacctg taatccagc 87420  
actttgggag gccaaaggcag gcagatcatg aggtcaggag ttcgagacca gcctggccaa 87480  
tatgatgaaa ccccgctctt actaaaaata aaaaattagc tgggtgtggt ggtgcacacc 87540  
tgtagtccca gctactcaag aggtcgaggc aggagaattg cttgagcctg ggaggcagag 87600  
gttgcaggga gccaaagatca caccactgca ctccagcctg cgtgactgag tgagactgtc 87660  
tcaaaaaaga aggtaaactc aaaggcggtc actccatctt ttttgtcata tttctttctc 87720  
atctacatcc tcttcccatc tgcaacagaa attcaacttt taattttacc taattcatc 87780  
ttttcacact ttgggtcctt ttcactattc tgttacggtt ctttaaagta actgcctctc 87840  
agattttact aaaaatgtaa aatttcctct ttatgaaacc tagaacacat tggtagacaa 87900  
aattaaagat gggagatctg gtggtatcat aaaagaagaa attcgtcaac cagactgtgg 87960  
gtttcctaga tttttgttta tagtaggttg tatgttatat ttagttgcat ttttccccct 88020  
agagtttagg ttccataact ttcatcatat tttcagagta atttatttaa aggaaaaaaa 88080  
gtggccaaaa ttaaccttta gaatgaataa gtctgggcct aaccagtgtg aaggatggt 88140  
cactgaacct cctgtttctc gagtctttgc cttctgaaga tatgtgtatt gtaatagatg 88200  
acagccgctt gcggttaatt cagtaataca tgtcagctcc acccctggca cttttaaacc 88260  
ttttggccta ctattttgca aaacagattt ttaagaatta gtatgcattt tagaagtttc 88320  
ctttcagggt aaacttttta aatagttatt ctttaataat gctgttaaaa gaattttggg 88380  
atttctattg ccaagtcact aaaaagtaac tcaggcagag aagggttaagg gtgctgcaag 88440  
cacacatgaa gaattaacat tttaaaagaa cctttgagca ccttggcacc tgtggatttc 88500  
ttcttgatg tctcatgcct aaaagcagag cagcactctg taaaatcagt aaaagtagga 88560  
aaggacttgc aagtagaaat gtttcagcag actctgcct ccccatctc catcctcact 88620  
ctgatgttaa gtgtggggcc cattgggcca gatacaggta aaaaggtggg tgatgtcatt 88680

aaaaggtatt gttacttata gcttattata tgtgttaa at ttaataaga attttctttt 88740  
 ttcttttctcc caagccaaac tggcaagacg cagtcaagaa cgggacaatc ttggcatgtt 88800  
 ggtctggtca cccaatcaaa atctgtcaga agcaaagtg aagtcttgga gcactttatt 88860  
 ttccaccttt cttgtttaat gtaaggtttt aaaggtaacct ttgaaggtaa aagcttctat 88920  
 atgtattaaa tttcttttct attttaagat aaataattta aagagtttta aagtgtatat 88980  
 ttctttttttt aaaattttttt attttttgag atggattctg gctctgttgc ccaggctgga 89040  
 gtgcagcagc acgatctggg ctactgcaa tctctgcttc ctgggttcat gtgattctcc 89100  
 agccccagcc tcctgaatag ctgggattac aggcacccat taccacaccc agctaatttt 89160  
 tgtattttta gtagagatgg ggttttgcca tgttgccag gctggtctca aactcctgac 89220  
 ttcaggatgat ccgctgcca tggcctccca aaatgttggg attacagggtg tgagccactg 89280  
 cgccctgtga tctgttccat ttttgaacat gttctttctt acagagcact aaaaatctgc 89340  
 ctccctgtaa tttgtaaaag ctttgttttc ctgaactttg cttaaataagt ttgcttccat 89400  
 atgtgtcctt taaatgttca gtcacgtat ctcttttact gtctgagtcc aagctagttg 89460  
 cttcagggtgc cttttcagat ggtttttttg gggatctctt ttcactcctt gttgtccttc 89520  
 taagtgtgtt ccagttggcc acaatgtcca tcttaaattg tactcagaac tgaatatgaa 89580  
 gaatactgag cattttttga acctttatgc cagcacagta ctaaaatgtt tttcatactc 89640  
 ctgtatcatt cagtgttcac agtaaccacg gaggaagatt ttttctctgt tttacagatg 89700  
 gcatcccata gttcaaagag tcagagggtt gtaaaagtag cacagatagt gaggggcgga 89760  
 accccaagta gttcactcct gggtcataat ctactttatt tctcaggctg tgttcattta 89820  
 gcctgttagc cactatcttt ctgttattac agtttaaagt tgtattagtc acttttctta 89880  
 ttgtattgct tattggagtc tttggagtca gaatttaatt ttaatgttat cttattttttc 89940  
 atagacctag aagaaaaggg cagaatatgt aaagttaatt gattttttaa cagtgggtgtt 90000  
 gcctataaaa taaatttaca gttttattgt aagccctgat tacaatcgtt ttaagtttaa 90060  
 agttgggtta aacttttaaac tttaaaaaaa ctaacctgtc cactgaggct ccagtggaac 90120  
 agcgagctcg gcttgtggct gagacacact tgagccaggc cagaggcata ggaggacca 90180  
 atttgacaga tatcaataca cgattcttac tgaggccttt gaaacggacc cttgtcctgg 90240  
 aattactgtc agaaaagaac cggccagaaa aacagactcc cgagccacga gtccagggtt 90300  
 ggtttcagaa ttggagaggt ggagcacgga aaagaagcca gagcagcgcc agcgtggagg 90360  
 ccacctgggc gcaggtcccc ccgatccag accctgggtc gcctgggggtg ctgaccccta 90420  
 ctgttccacc agcggggctt ccccggggtt cccaagcaat gtgggcaact tctcttgga 90480  
 atcgaggat gctttgggct aagctctcct ctgggggcgc gctgatgttc cgtgcgcgaa 90540  
 tgtggccccc gctgacctgg agatggcagc cagtgcgctc ggccacgctt agggagatgt 90600  
 cccttgatct ccgcccctcg gccagtgct gcttccgggt cctcttgcc accagccctt 90660  
 cccacagctg gaagctggca gtgctgggct tcaagttcat cccggggcac ccggcctgct 90720  
 ccccatcac cagtccttag ctctgcgggg gctggggctg caccctcctg ctgtggagca 90780  
 gcagccgagg tggggctggc agctggggga ggcgcctggg tgcgccgtga cctgggagca 90840  
 gccctctccg cccagcccc cgcagctctg accgtatccc gcctctctgc ctctttcctg 90900  
 gccatagtca cagccacagc catcgagga cccggctgag cgctaggaac aggttccttg 90960  
 tcttctcca gaatccaact cgcacgggag gccccagcac cctgcccc aaccgctgc 91020  
 ggagtctgaa cctcaagcgg ctgcatagca aaccctgga aatgacctgt cagtgtcagg 91080  
 cagtgaaga cagatgaact aagcaagggc tcatcggtag tgttcacgtt atgaaaattg 91140  
 aagagaaata tcaagattta tttactttgt cacggaaggg cttccagaca tacctttcag 91200  
 ggaaatcgag ttgttagggg ggaaggccct tgggggtgcat gagacctagg ggttttctt 91260  
 agatggcata aaaaaggatt gactttatag aatacatctg tctttccatt tattaaccga 91320

gtaaacacgg agcactgaga gtgaacaaag tccactagcg agaaggcagg atgaggacgg 91380  
ctttgtagaa atgcattatt ttctatcagg aaagagcaat gatttctact ctgggaaaaa 91440  
aacaaaacaa acacttacct aaaagtaata ttacatatt gttgaaagtt catagataaa 91500  
agtataaaga ataaaaaaaaa ttcacctatt attccatcac ccagagggtga taatcgtaa 91560  
acattttggg gtattttcttc caattttttt tgtatgtatt tatataagtg agatgataga 91620  
ttatctgtgt gtgtgtatgt gtgtattgtc ttcttgagca tcggacctaa gcagtttcca 91680  
cgttggttaa actgcttata aagggtttta ataactagggt gtaatacttt attacatgga 91740  
tatgtcagta tgtttaacaa ttactctatt gaaaatttag gtgtctcagt tttggaagaa 91800  
tatggaagtc ttggttgtcc agcattttatt ctgacattaa gtagaaataa gtgatttagg 91860  
acatatttct agcagatact aaaaaactgt gtataggatg tctggagatc cctggctttt 91920  
cttgtgtgtg tgtgtgtgtt ttttttttcc tcttcttttc aaagtggctg ttcagagttc 91980  
tgcctcttag ggttactgaa agcttataaa gttatgttgt aattataaaa ataaatgcta 92040  
ttttagaaaa ttcaaatagt acataatgca taatatataa ttgttttcca caaatgtga 92100  
actgttatca gtctgctcat aagtacatct gggactttgt ttcactcag tatatctaca 92160  
gttatctaatt ttttttttac tgtaactagt atggatgtat cataatttag ctttttttta 92220  
aacaaaatta cctgtattac ctattgatga atatttataa tcttagttct ttttttaaac 92280  
tctgtttttt aaaaaacctg atccgtagaa tgactctagt ttaacattaa tgaattgtac 92340  
atttcttttt tttttttttg agacagaggt ttattcttat tgcccaggct ggagtgcagt 92400  
tgtgcgatct tggtcactg caacctccac ctctgggct caagagagtc tctgcctca 92460  
gcttcccaag tagctgggac tacacacgca ggccctgca cctggccttg aattgtacat 92520  
ttcagaatag ctagaagagg gctgagtgcg gtgtctcacc cctgtaatcc caacagtttg 92580  
agaggctgag gcgagctgat cacttgagct caagagtttg agaccagtct gggcaacatg 92640  
gtgaaacccc atgtctctca aaaagtccaa aagttagctg ggtgcgtggc atgtgcctgt 92700  
agtcccagca cttggaggca gagatgagga tgcttgagct caggagttca agaccagcct 92760  
gggcaacata gatctcccct ctattaaaaa aaaacgggga ggcgggggct agaagagaat 92820  
aattttgaat gttcctaata tagagaaaat gtaaataatt aggattatgg atatccagct 92880  
taccctgatt tgattatatg aatgtatcaa attatcacat gtaccctgga aatatgtaca 92940  
tctgatatgt atcagtaaaa taaaatacat acattttaag agaggatctt ggctctgttg 93000  
tccatgctgg agctcagtggt cacagtcata gctcactgca gccttgaact cctgggctca 93060  
agctgtcatt ttaaaaaaag caatagtga gatttttgcc ccttaataca tttcttattt 93120  
tcttgtttaa aatagatttt atattttaga gacattttag cttcacagct aaattgagca 93180  
gaaggtagag agtgcccatt tatcttctgc cccacacac ccacaccctc cccagtggtg 93240  
aacatcctgc gctggagtcc accaaagga tacgtttgtt acaatcaagc agcctacagt 93300  
gacacattct tatcacccga aattcatagt ttacattaag cttcactctt gtgttgtatg 93360  
ttctgtggat tccgacaaat gtataatgac ctgtccacca atgtagttat catcgtttca 93420  
ctggtttaag aaacctctgt gctccacctg ttcatctccc tctctgcctc cttaaacctg 93480  
gcaactgttg atcgttttac tgtttctgta gaatgccttc cagctggaat catatagtat 93540  
gtagcctttt caaattggct tctttcactt agcaatatgc atttaagggt ccactgtctc 93600  
ttttcatggc tggatagtgc atttcttttt agtgetgaat aatataccgt tgtctagcta 93660  
tgccacagtt tatctgggtg attgtcatgc taggaacccc tctcccaccc ccacattaca 93720  
aacagactga tgtcttctgt cgtcttctcc ttttttacat cgttgtttca actgaaatta 93780  
ttggattata ttttttctt cacttacatt aaactcatac atactttgtg cctggacttc 93840  
attcttttca gtgtacctgg ctctatattt attcttttag gtgaatctta gatttgtggg 93900  
aacaagttct gtccaaaagt atctcaattc agattatacg gaattcgtgt ttatctactg 93960

agttttcatt tacgttttat attgaacagc tttttgtctg ggaatgtacc aggagtgaag 94020  
ggttcaggaa tctcatactg taatggagag acagaaaaaa tgaacatgtg agcaaataat 94080  
ttatgtgtag ttttcctagg caactcttcc ttttttagagg tagaaacact ggggtctaca 94140  
gaagtaaagt caagtgttta aggtcccata gccagttatt acagtagcca agtttttagct 94200  
agatctcttg tctccagaca atatttacca cacctgtctg cctttgtagg ctgcttcatt 94260  
taataaactg taattcaacg cttaaaacat taatactata ctagtttttt tgggctgtgt 94320  
ctaagtaaaa ccattttaat gagagatata acttatggga tatgcctaga aaatgtggcc 94380  
ttagagaga catttcatgt tgaggaagcg taaataattc ccaataacat agattagaac 94440  
aatgagttta aatattaagt gatcatggaa aattacttga tgaaaccatg gcttgagatt 94500  
tcagcaacaa aggagtgaat gaagtacaat ctgccatcat gtgtaatctg gaggggtggca 94560  
gactgagaaa ctgaaaaatg ttcacttatt ggagaagagt acagttgact catatgattt 94620  
ttacatcaag catctcccat gtaccactga gtcagtattc tgatgttccc gttgggactc 94680  
agcagaaggt gctagctttc ctaggtagaa acaaagagtt gaagatgggt gacatttgat 94740  
tgaaatgtgg aagaatgagt aggagtgtgc tggctggacc aggggcataa gtgcacacta 94800  
gacagaagaa atgatagcat ttcctttttt tttttttttt tttgagatag aggtctcgct 94860  
ctgttgccca tgctggagta cagtggcgtg atcttggtc actgcaacct ctgcctcctg 94920  
ggttcaagca gttctcctgc ttcagccctg cgagtagctg ggattacatg cgtgtgccac 94980  
cacaccggc taattgtgtg ttttttagtag agacagggtt ttaccatgtt ggccaggctg 95040  
gtcttgaact cctgacctca ggtgatcctc ctgccttgggt ctcccaaagt gttggaatta 95100  
taggcgtgag cactgcgcc cgccagcat tttcattttt aaagggtgtga agatgtggag 95160  
aggaaatcca gcacttaatt ttggagattt gcctgactgt gacaagtgtt gtccctggggc 95220  
agagagaaat gaaactagaa aggcaggcca gcttcttaaa ggtttgagg atctcttgac 95280  
ggagttttag ctagaactga tatgatttac actgaaaagc tcttgacagt cctgtggttt 95340  
agagaagagt agagaagagg tttattggtg gtagtaagggt gttgatgcaa ttccaagtca 95400  
gagaagttga ttgcctaacc gggtcagtgc tgtaaaaagg cggcatgatg gaaattcagg 95460  
aagtcaagtc aggagtatct taacttgccc caaagagatg gagaccatag aattgtgggc 95520  
ttagtgactg gttcaggcag cctttaacat gcctgtaaag actattaaat gccgttaagt 95580  
ataggtgcac tgttccatca tttactccac acgtttctgt tgaacccta tgaggcactc 95640  
cgttgctgtg atacggtatc atctctcctc agtccccact gtgatattgt gcagccacc 95700  
tttgcatgga ttccacaccc tacctctgca catcctgttt ataccattcc aggtgccc 95760  
cctttgggga ctccatcctc attccagttg atctgcaccc taaatgccc cctgtctcag 95820  
ccctaccac cagcttttag ataccacctc ttgccttcat gcagacacca ctgcactgcg 95880  
cagtgtactt ttgacagtcc cctctgtca ctgtgcttac gtgtagacct acctcaagtt 95940  
tggacttcgt ttgttttagag aagcagctga acgttaacaa agtgggcgta ttagagttta 96000  
aaatatatgt agagttagg ccagattgta ggccagctc gggttctttt actgacttag 96060  
gaaaaacaaa gtttaccag gcacgtgtgg ttaaataata tgcaaaactg tgggtccaagg 96120  
gtcttaatga aatggataga ttaatctgag gatttttttt ttgttgcttg attattatta 96180  
ttttttttaa ggtagggtt gaaaagaagg ggagtggaa tagaggggaa gctcgggtat 96240  
agccttgtct gttgtttata gtctgctttt taaaaatata taatcaacta aattgctcat 96300  
gctgaatgat gttgatagtt ccagaagga gcaaatttct cagatgggct gctgttgct 96360  
tgggtgtaga atttagcaag gtgacttttg gctattggat atccatagaa acagatggtc 96420  
ttgctcattt atgcattatg cattttataa gttatatata gtaagtgttt gtgcagttat 96480  
ttaagtgttt gcattttggg ttttttattt tataaaaatg aggaaaaact ggtccagtg 96540  
taagaatcat ggatctctgt gttaaaatag aaaaaaatg aaatcgtag ctgtgccaaa 96600

aacaagctgg ctgatttttt tgagacagag tctcgcaactg atgcctgggc tagagtgcag 96660  
tggcgcaatc tcagctcact gcaacctctg cctcccaggt tcaagctatt ctccctgcctc 96720  
agcctcccta gtagctggaa ttacaggcac ccgccaccat gcccagctaa ttttttgtat 96780  
ttttagtaga cacgggggtt caccatgttg gccaggctgg tctcaaactc ctgaccttg 96840  
gatttgctg cctcagcctc ccaaagtgtt gggattacag gcgtgagtca ccgcgcccgg 96900  
cctgattttt tttttaagct agctattaac tatataagga aaaaaattgc atgtaacatg 96960  
gtggaggtag ataatttaaa gttgtgtcaa aagacaagtt taagttaggg atttaaaagt 97020  
aagtttttagc tttcttggaa taagagccgt acctatgaca tacgcacaat tcatttctac 97080  
tttaggatgt ttgacttact atattgtaca tgaaagttta gagtaatatg aataatgtgt 97140  
aatatatcat atataattct aaactttcat gtagatacat agtaaagtgc aggtgtctct 97200  
attcagagca tcccagtagc ttttcaattc attgtaagtt aaagtcaaaa gaacctgaca 97260  
caccctgggc agcatggcaa aactccatct ctacaaaaaa attaaccagt catgatgggtg 97320  
cacacctgta gtcccagact gttgggagggc tgagatggga ggatcacttg agcccaggag 97380  
gtccaggctg cagtgaagtg tgattgcgcc actgcactcc agcctgggca acagcaggac 97440  
cctgtcttaa aaaaaggaaa aaagaaaata ataataacac aaaaaagaa cttgatgtcc 97500  
acatggctca cccccagtt cattctgggt attgcttaag tgtcactata tcagagaagc 97560  
cttctttgac cacacaaacc actcactgtc ttaactcact ttctttcatt ctgcttatca 97620  
tcaccggaca tcgtattatc tactttatgt ctctcgtctc tctccactgt agtgtaaaac 97680  
tgagtggagg aacttggtat gtgtgttcag ttctctgtca gtccccctctt ggcagtgtgg 97740  
gggtgtataa taaataagtt attgaatgaa tgagaagggt gtgggagtgc aggtattcccc 97800  
tggatagaga tttgcaaata caggcttttc tgccatttgc tctgtaactt ggggtgtctg 97860  
gaatcttata acatttcctt ctttgtccct taccttgtgg ctatcatttg tttactcagt 97920  
aacttgcaca actgcttgtg taccaagcgc tagcaggcac tggcgaaata cacgaacagt 97980  
ccgacaagtc cctgcccag tgtagcttac agtctacggg aagctgcact ggtaaataag 98040  
ttcattgagc gccgtgaagg agaagtgtgc ttaaacaat accacatatt ctcaacttaca 98100  
agtgggagct aaacattggg tgcacatggc cataaagatg ggaccaataa ataagacact 98160  
ggggactacc taggatgggg agagggtggg acaagggtct aaaaagaacc tgtgctgagt 98220  
gagtcattggg ttcatttcta ccccagacct cagcatcacg cagtgtgtct ttgtaacaaa 98280  
cctgcacacg tgccccgat tctaaaataa aaagttgagg gaaaaaaca aaacaaaaca 98340  
acttattctt tgacttgggt gtgagcagca gttagcgatg ggtaagccta tattggccta 98400  
gttttcagct ttttaaaaat atatggctag aagagggtga aacttgtgat taaaatgagt 98460  
cttttgagtg tgtgaaaagt attttcatca ctttaatttt ttttaagtgt ctagaactag 98520  
ctaaaatggg caaacgtac tagaataaac atagctgaat gagttgaatt tacaaactag 98580  
tggaagcctt ctattaaaca gtaatttacc ttgtaatcat attaatgtct aatctgtatc 98640  
tttatacaga aaaacgtttc attgtgttca gttttagttt atcctttctg ttgacagtgg 98700  
acatccatta tcagttcttg actattacaa atattactgc tggggaagca ttcttgacc 98760  
tatttcttga tgcccatcta gaatatatat gctaagttct gagagatcag tgccaaatta 98820  
ttttcaaagt ggtcaaactg gtttacactg ctaccagcaa aatgcagaat ttatttgctc 98880  
cacatcctct ccaataattg ctgttggttg acttatacgt gttagaccag tctagtgtga 98940  
gtataacact gtttcatata ccaaggaatt ttgctgtttt agttaggtct gttaatggca 99000  
ttggtgttat gaaacaaata tcccacatt ttaaaaagag gtgtatattg atatatgtag 99060  
ggatgaaatg aaataattgg gatttacttt aaaattcttc agcacatgta aagcacattt 99120  
tgggatcagt tcaccaaatt gttctgtgga tgcagattaa agtattgttt ccgtgtttaa 99180  
tttactgtcc tgtgggttat taggacagta tacctaccct tagaaaacac ttgctgaatg 99240



tttaagagta ctgggtcata atatatgaaa gctgctctca agtagttcag gaaaaagtta 99300  
acacacacac acacacacac acacacacac acgcttattt ttattattaa aaatagcctc 99360  
taacttacct caccatgtgg acataaccac tattaaagtt tgcttccgga tcttttcggt 99420  
atgcttatat gcactctgat tttaagcaca aatgggtaca tcttctatgt agtgggtttc 99480  
aactttaatt ttctgcaat taaaaattaa accgagtttt gatcctgaat aatatcacat 99540  
ctttagcat actttattca actacatctc tcttctctc cttcttctc tcttctctc 99600  
cttcttctc tcttctttt tctttttctt ttttttttt tttttgagac agtcttgctc 99660  
tgtgcacag gctggagtgc attggcacag tctcagccca ttgcaacctc cgcctcccag 99720  
gttcaagcaa ttctcgtgcc tcagcctccc gagtagctgg aattacaggc atgtaccacc 99780  
acacctggct aattttcata tttttagtag agttgggttt caccatgttg gccaggctgg 99840  
tcttgaattc ctgacctcaa gtgattgacc tgcctcagcc tctcaaagtg ttgagattac 99900  
aggcctgagc ttctgctccc agcccacatc ccattcttga acatttagat gttcttctt 99960  
tttctctcta taaataacac aagtacacag gaatttataa tgcctctctc ccagttgaaa 100020  
agaaagcct ccttaattct gcagatcagg tttctcaatt atgtgcattc atagttctt 100080  
ttctcggta cttacgaca ttggaattca tttgtatgac tatttctctc tctccagtca 100140  
gacatgcggg ttccataagg gcagagattg tctattttaa tcacagctat caaagcagca 100200  
ccaggcacac agtaggcctg aaagatttgt taaatcagtg gagaataatt tcaacataaa 100260  
caatatattt tataaaagat cactgtgttg caacttactt tgaaagctct taaataactt 100320  
gtttgtatag cagtgttat ggaaggctac tctattggat gaagaataga aaacctcca 100380  
cattgcaaac agtgggactt aacagtggga gggcctgcc ctcccaactc cctctcacag 100440  
gcaggagagc ctgccctctc atactcagtc tcacaatggg gtttagcttc cttttcagag 100500  
ctaaagaacc caccagcct tctataaca cagactctct ttcattctta atggacagaa 100560  
tcaagattat tgctgccaga gatagaaagt tggggaaaag tctcagaggg tcccttctt 100620  
tgtttgagc aatttgatgc aggtagcttg tatttctgtt tatctgctc ctgtttctg 100680  
ttttatctt tatccatcac cttaagcatt tatgctttt tttttaatct taagaaatgg 100740  
gggttactg tggtgcccac gctggctca aactcctgg ctcaagtaat cctccctct 100800  
tggttatca aagtgtggg attacaggct ataagtgtga gccactgcat ctggccaatc 100860  
ttttgtttt tgtatgagg tagctggagc acttttaatt ttctaagggt aaaaacttac 100920  
ctttgcttca cttaaggaaa catgtgaga gatcttgaaa aatgcactt tcattttcat 100980  
cactgcccta ccagcaacta ctgggtgact ctgccaagat aagcttcaga caagtcactt 101040  
ctctggggat tggggttga gactgactta ttctgtaaag tgggatttta acaaactccc 101100  
actaagaaat agctttaaaa aatttattt tttgagatgg agtcttgctc tgttgcccag 101160  
gctggagtgc agtggcaca tctcagctca ctgcaacctc cgcctcctgg gttcacgcca 101220  
ttctcctgcc tcagcctccc cagtagctgg gactatagga acccgccacc atgcccggct 101280  
aattttttt tttttgttt tgtttttgta tttttagtag agatgggggt tccactgtt 101340  
agccaggatg gtctcaatct cctgacctgg tgatccacc gcctcgtcct cccaaagtgc 101400  
taggattaca ggcgtgagcc attgcgccc gccaagaaat agcattttta taaagaacgt 101460  
acattttgtt acctacttg aaggacggat tgatgaaatc ctcaggcaga gtctctggct 101520  
tggttctctg tgctgtttt caccacagag agggagcgtt cagatgttta ctgtagtaat 101580  
gtctgtacct accaggtggc acaattgctt tacttaaatg atttaagctc attttgattc 101640  
tcagcgaggt gtgataact atttcttatt ttaataataa aagatgccac aatatttgtt 101700  
actgtattt taaagagaat ttttgcattg tcagttgagt gatgagagag aaattgggtg 101760  
catgtttct ctgtggtacc taatcctaca gcaagagttt caaaaatatt tttttaaaaa 101820  
agctctaaga aggctataag ccttgtcatc agcccaccat atgggtgccag cctattgctt 101880

tgcatagaat atccaagatc acacagtgtt ctgaatatct gcagtatcta gggggaggga 101940  
agggtgagtt aaggttactg tggcaatttt catctgcatt tctcccttct tttgcacttg 102000  
agacttactg aggggtactag ggcatttcgt tcattgaatt aaaatgaata tagaaacaat 102060  
tgaagtttag cgtccatctg tttcttacc cgtctttctg tcacttcac aaccacagtt 102120  
ctattaactt cattcaagct agatacagta tgttgattag ccttggttcc ctgtaccaag 102180  
gaggctgttc taatctgaag agcccttctg cctctatctt ctctcctcaa gagatagaac 102240  
tgtgttggct ggtccgaagt agtgagttat ctcaactgat tcttcacaat tgcagatgga 102300  
actccttggt cttctctctt cctgcttctc actactggac ccagctggtc ttttttaaaa 102360  
gaaggaaagg aggggaaggag ggaggaattg tgcatagagg ttgtttgttt ttgtttttgt 102420  
tttagatgga gtcttgctct gttgcccagg cttagagtga gtggtgcat ctcggtcac 102480  
tgcaacctct gcctccctgg ttcaagcaat tctcctgctt cagcctcctg agcagctgag 102540  
attacaggca tgagccacca tgcctgcta tttttttttt ttttttttta gtagagacgg 102600  
ggtttcacca tgttgccag gctggttctg aactcctgac cttgtgatcc acccacctca 102660  
gcctccaga gtgctgggat tatagggtg agccactgcg ccagtgcat agaggctcta 102720  
aaccttatac cttatctgat attaccagc tgtgtgacct tagccagact acttctgtga 102780  
gcctcagttt ctttgtgaat gagagtga atggaactat cagagaagat taaaaaaaag 102840  
attgtaaaga gcttaaaaca atggctcata aataataaat tctcagacgt tagctgttgt 102900  
ttctgcttgt cagtatagat gccgaacct taggaagcat tccttcattg atcattatta 102960  
tcatctgatg acttggcatt ccatactgt cctacatctg tgttgttatt tegtgtgttt 103020  
gttctcttct gttgcctgtg tgtgtctca agctactgtg ggaaatcggc tcatttttgc 103080  
ttatttcggc ttgctattta atacagtgtt ttgttcattg taagttaa ttcagtacatg 103140  
cttgattagg cttttggaat ttataaatt ttcttgaaga atgaggattt cacattctgt 103200  
ctttaagtga tattatgagg aagcccataa ctcattcacc tatgctctcc ataatggtaa 103260  
aacgcagtgg atggattctt gtgcttctga ctgacagatt ggaatgtcgg ccaggttgca 103320  
caggcaggcc tgctttgctg accctgtaca ctggggaagg gtgatgggtg caaatgcctg 103380  
ggcccataga aacgtgctgg cattttcttg agcagcgtgg actttgctca ttgtcctgat 103440  
tagcgtttac ttcattgagc cctgcctca gtggtcctc acttccagat tgggtgaattt 103500  
ttaatcgata agggacagaa ttaagattgt tgttgccaga gttggaaaag tccccacgga 103560  
tccctctttt ctttaagagc agttttttgt aggtagcttg tatttctctt gctcctcttc 103620  
cttctgtgtt catcttttat tcaactgact ttaagcatct gcttatcttt tttttttttt 103680  
tttttttttt ataagggtag ctgggaacac attttatttt cttgggttga aagctttttt 103740  
tttttgcttc agttaaggaa accacgtggg aggttttgaa aagtgcactt ttcattttca 103800  
ttgtgtcct accagcagct actggtataa ctctgtaaag gaacagggtg ggtggtggga 103860  
agggaaatagc atcagggtat ctgaaaagta tggcagctat gcatgtccct tgattaaaga 103920  
aaacaaaagc tgaggattat gtagagcagg aatacagtaa gagacaaggc ctgtcaacag 103980  
cattgcttgt gcagatggct atattctgag taaactctag tccagaacat tctgtgagga 104040  
gaggaggagg agtacctact gtggtgtcat tttcccagtt aggtgataac ctggctttat 104100  
tgggtgagaac taattcttgg gaaggctcagg gcgttgctaa agataacata gtcatacagt 104160  
gctgactgtg tgccatgcac tgctagacaa actcatttta ttttgagaca gagccagaat 104220  
ttgacccggg tctttcttac cctgtacata acctgtgctg ccttttatct tgtgggacag 104280  
gaaacctcat atgttgacat tgtacataat acagcaccct aggcattcat tcagcaaatg 104340  
tctgtctgat ttttgttggg cattgggaac aatgaaaaga atgaaaaagt gtatatttgc 104400  
tagtaggtat tagatggtaa ttccttttac aggttagagg gctcctggta cattaactta 104460  
cttcatcaca accttccgag cacctagtag acacaccatg tgtcttcatt taagtagtta 104520

ctacagtaga gtgcttttctt cctttacttt agatttgagt catcaggggtg atcttccaag 104580  
aattttttttt ttttttttgg acaggggtctc gctctgttgc ccaggttggg atgcagtggc 104640  
acgatcttgg ctactgcaa cctctgcctc caggattcaa gcgattgtcc tgcctcagcc 104700  
ttccaagtag ctgggattac agacacgcac caccgtgccc agctgatttt tgtattttta 104760  
gtagagatgg ggtttcacca tgttggccgg gctgggtctcg aactcctgac ctcaagtgat 104820  
cctcttgcct cagcctccca aagtgtctggg attactggca tgagccaccg caccgggcca 104880  
tccaagaaaa tccaaaagtt acatgacttt aaagggtacc ttagtaagaa taccttattg 104940  
tttacaatat ggcagatgtc ctatataacc tcagctgcag cattcgggat ctactgttac 105000  
tgtcttgttg ttctgtcac cagctgattc ttaagatata aagcaaaaaga ggagttgaaa 105060  
atggagtagc attcaacaaa tgcttgtgtg tgtcttaaaa tttgtagcta aatctgggtg 105120  
cagacagtgg gcacaggcat tacaggcctt gttactgatg tagcaggagg gactctgagc 105180  
agataacata tgcccaagaa ccacaggcag gactagcccc tgtgctgggc cactccaggg 105240  
actcctgcat cactttttca gcctgtgcat gtgtttgctc aaagatcgtg ctactggtga 105300  
tcatacatat attccttact cagttaaggt agataatagt gtgctctgag acttgagatt 105360  
tacagcagaa gcttaagggtt catttggtgt tcattcacca agtatttatt aaaggaagga 105420  
acccttcaag ccagttttta acaagcagac cttctccaga gttgaccctc aatttaccgc 105480  
agattgtttt cgccttctgt ccttacatat tcttgagtgc atctcatgac ctggttttta 105540  
atcagctggc ctgctgtctg tttctaggtc tggtatgctg ccatttgcac ctcactcct 105600  
ccagtatgaa ccccatatt acctgtgtct ctctgcaggg ttctggccag gtatacagaa 105660  
ccacctgttc gaggcgcctc atctgacatt ttttagaatc tgagagcact tttatttggc 105720  
ataatctaata gtattgtgaa ggaaaaagca agggacacac tttggagtaa ttccctgccc 105780  
tgcccttttt tttttgagat gaagtcttgc tctgtcacca aggctggagt tcagtggcac 105840  
gatcttggct cactgcaacc tcagcctccc aagtagctgg aactacaggc atgcgccacc 105900  
acgccagct aatttttgta tttttagtag agatgggggt tcaccatgtt ggccaggatg 105960  
atggtgatct ctgacttcg tgatccacct gcttttagcct ccggaaatgc tgggattaca 106020  
ggcgtgagcc accgcgcctg gcctctgccc tgctttttta aatcaccagt tatacttttg 106080  
tgacaagcta tggtcatttc atttgtcatt tgctgacctt caagtaaatt gaaattttac 106140  
tgtaatctga gtgaagtaac cagtttgtaa ctatttttaa tattaatcg gaaattagtg 106200  
gcttagtatt agaattaata ttgagctgca gtatataatt agttattgtt tgaattaggt 106260  
tgactttttc ttttgtcaat ggaatatttt tccccaattt ttagaatata tgcttctata 106320  
agagttggaa ttctttttca aaattgattt ctgttttcta aattgggtga cagttctccc 106380  
agagctggga gcatgctttt ggtataatcg catggcaaac taagttgtag aagctcagac 106440  
ttttattagg actcctctgt ttactctttg tgtcatagtg ggaaagtga tcaactctgag 106500  
cctgtttttc ctaagtttgg ccattgtacc tagagagtaa gatttaggag ccaagaggga 106560  
ataggggcta gtcaggattt tactgcctac ttcatacagt tctatgctcc ttgatttttt 106620  
tttttttttag cttgtgttgt tgttattttt ttaattcata aaggaaaatc atgcatgaac 106680  
atatggcagt gctattgact agtgcattat tttttcttgt acacttggga agaaagacta 106740  
gaatatcctc agggaggaaa ttgattcatc tttgggggtg gcagcttctc ctagagggtg 106800  
agtcaattca ttttccttgg tattttccat gggtcttgaa agctagccac cttatatttg 106860  
agtagtacat atttgaaagc aaataccaag cactgggtca cgtaatctat ctcttaagaa 106920  
tttttttaaaa cataaagaat agtttgttca ttattcaacc tgagctgaaa ctaaaaatga 106980  
cgcccaattt catatttctt tttactgcta gacatgttgt ttaaagtagt acttgtttgt 107040  
tgtagaaagt ttttaagtag actaaagatt ttgtcttctt tttccctttt tctttttttg 107100  
agacagagtc ttgctctgtc accaggctgg agtgcagtgg tgcaatcttg gttcactgca 107160

acctctgcct cccgggttca agcgattctc ctgcctcagc ctcccaagta gctgggatta 107220  
caggcatgtg ccaccacacc tggctaattt ttgtattttt agtagagatg gggtttcgcc 107280  
atgttggtca ggttgctctc gaactcctga cctcaaagtg attcgctgc cctagcctcc 107340  
caaatgctg ggattacagg catgagctgc agcatccagc cctgactaat tttttttaa 107400  
aattatttgt agagacagga tttcactatg ttatccaggc taatctagaa ctctggcct 107460  
caagggatcc tccgcctca gctttccgaa gtgttaggat tacaggcatg agcctttgtt 107520  
tttctctttt aaagaagact cataatctca tcaccagggtg atactgctgt taatatttga 107580  
gaatattcat tcagacgttt ctctgcagga tcaataacta ttataatggg tctgttttgt 107640  
tactgtgtgt tctttatttt tagtcttgta caggacaagt gtattagtcc gtttttatgc 107700  
tggttgtaaa gacatacccg agactgggaa gaaaaagagg tttaatggac ttagagtttc 107760  
acatggctag gaaggcctta caatcatggg agaaagcgag gaggagcgag gagcaagtca 107820  
tattttacat ggatggcggc aggcaaagag agcttggtgca gggaaactcc cttttttaa 107880  
accatcagat cttgtgagac ttactaacag gagaatagca caggaaagcc catcctccat 107940  
gattcagtta cctccagttg ggtccctcct acagcacttg ggaattgtgg gagatacaaa 108000  
tcaaatgag atttgggtgg ggacacagcc aaaccatata agcaggcctg aaatatacac 108060  
gtatatcaat tctagcagac catagggtgt actctgtccc tcagtttgtt taatggcate 108120  
tcttcttgtt tttcagtggg tgaatacatt gccattgcca aagaaaagca tgggtacaac 108180  
atggaacagg taatatcatg gttttctttt ttttgcgtgt aaaaaatgag tatttgtaac 108240  
taaataatta tatttttttc ttctttgtat tgagtagcag tgtttcttca ttagcaactt 108300  
tttggttaatt actagtagtg ttacacaaac tctggctctc ttttcttgt tcaagatgaa 108360  
tattagagga ccttttgatt tgaaaggcat atctgtcatc tgcagatcta cagcctttag 108420  
gacactgatt acttagtgat tactaaggag ctggatgctt gagcataatg ctttctcatt 108480  
tgaatatgtg atttgtttgt cattcttctg gttgtatcat gatgtttttt gacgcatgtt 108540  
ttcacattct tacctaaagt gttttaatat tcaccatttt gaatcatttt cagtttgaga 108600  
tggagtctcg ctctggtgac caggctggag tgcagtggcg catctcagct cattgcaacc 108660  
tctgcctccg gggttcaagt agttctcgta attctcgtgc ctgggcctct caagtagctg 108720  
agattacagg tgcacaccac cagcctggc taatttttgt attttttagta gagaaggggc 108780  
ctcccaaagt gttgggatta caggcgtgag ccactgcgcc tggccaagat tttcttttaa 108840  
atattgtttg gaatgtacta ataagaaatc cacaagattt atttttctgc aaaagtgtgg 108900  
tgatacctta tttcagcttt aatgatttat tttaaacaca tcaagttgga ttaatgcttt 108960  
ccatggcatt aatctagatc ttacaacctg gaagttactg acatttctta tttttctgaa 109020  
tgatggaagt taccaagagt ttagattatg tgaaattgta cctttctttt tggacttggc 109080  
cttacattta attactctat cctggtcatt gaagctactt ttgattgcaa aatatacctg 109140  
tatgaattct taaggatggg agtcttgatc atttctcctt taaaaatgat cattagcatg 109200  
aaaatttcct atattataat tccagcataa aaattaccat tagcaaagta ttgctggatc 109260  
tcatcttacc tcttttgttg cttattctat ttctatttct actttttttc tttctaagct 109320  
gagaagacct ttatatatca tatatataac atataaatat atataatttt taaaataaaa 109380  
gaataacagc aattgttctt tcataaatta cttttttcat ttatatattg aggagtaaa 109440  
gtgtgatact tgaagagcac agatcctaga actatgctgg ttctgtgacc agaggcaggg 109500  
aaaggcagtg cctcagagaa gaccttcagt ttatactcag gctgatcctc acaatggagg 109560  
caagcctaca accaaaagaa aacaaaactg tagtaaaaac atagcaaacc ctgaggaaga 109620  
gtgtgattat gagtttacta cattattaga ttcagatgtc caggttttta cagaaaaatc 109680  
acagagcata caaagaaatg gtaaagtatg cccattcagt agaaaaaat taatcaacag 109740  
aaactgtccc tgggaaaaga ccttagtggc agatctacta ggcaaagatt ttaaaacaac 109800

tatcttaaag atgttttttaa agaactaatg gaagatacag aaaaaatcaa gaaaatgatg 109860  
tatgaacaaa tggaaataac agtaaggaaa tggaaaacct gaaaggaaac caaatgaaa 109920  
ttctagaccc taaacacttg aaatgaaaaa ttcactagac gtgctcaaag gcagattgga 109980  
agagtctcaa caaagaacat gaagaaagga cagtggaaat gatttgagtc tgagcagcag 110040  
gatgagaaaa gattgaagag tgaacagagc ctaagggtacc ctaggggacac aatcgggttg 110100  
actaacatat gcatgtggaa gttgcataag gagtaagaga gataggggaca gagagattac 110160  
ttgaagaaat aatggccaaa aatttcgcaa atttgttgaa agatgtgaat ataaacaaac 110220  
atccaagaaa ctcaagtgaac tccaagtaga ataaactcaa agaggctcac cagagcacat 110280  
aatgaaactt tgaagagaca gagaatcttg atagcagcaa gagagaacta acctattaca 110340  
tataagggat cctgaataag cttattaggg tatttcttgt caaaaccttt ggaagccaga 110400  
ggcaatggtc tgatatattc aaagcagcaa gagaagaaaa ctgtcaacta agaattctat 110460  
atctgagaaa attctttcaa aagtaaaggg gagaaatgaa gatattgtca gttaaaagct 110520  
gccggagagt ctctctgaag agaccacagt ggagctgaac ttgccaaactg gtaatcccat 110580  
gggtctataaa ttggacaaga acttgaagcc catcaagccc atgaataaaa aaagtctctg 110640  
gggatgaaga gaccattcat aaagccatgg aagctgtggc tgcccagggc aaggccaaga 110700  
agtgaaggcc agcaggtga ctgctctctc aaggagcact ctccctgccc aaccattct 110760  
tcttcacctc cctgctgcac atgccacacc gaccacatct gcaggcatct tacgttggag 110820  
ctgcagatgg gaactcatgg ctcccatttt cattgtaatc agttttgtct cctgcacca 110880  
ctcccttcat ataatctagt cagatagcac ctctggtgca gggagaaagc tctcttctatc 110940  
caagagagtt gagaggtagt gactagggct tttgccaggg cttgtttact aaggaccttt 111000  
gtgggaggaa ccatgctgtc atgaccaaag aggagaagca aagagggcct gcttgacccc 111060  
aggacccaat cctgtactct tctctagtca tgccactgtc aggagagctc tgctcattcc 111120  
agtggaagat gacagtaacc tgcacggtga tgtgaaaaaa caacgatttc ctccctgatc 111180  
ccagggtagg tggctctaga aggttgagag caatcctgta ttaagttcat gtgttggatt 111240  
tacttttaca aaaaattgta tgtataaata atacaaaaca aaaaccttc tgagattttt 111300  
tattttattt ttttgagatg gagtctcact ctgtcaccca ggctggaggg caatggtgctg 111360  
atctcagctc actacaacct ccgcctctcg ggttcaaaaca attctctgc ctcagcctcc 111420  
tgagtagctg ggattacagg tgccctgccac catgcccggc taatttttgt atttttagta 111480  
gagacagggt ttcacatgt tggtcaggct ggtctcgaac tctgacctc gtgatccact 111540  
cacgtcggcc ttccgaagtg ctgggattat aggcgtgagc caccgcgccc agcccccttc 111600  
taggattttt agtggcagtt caaatagtcc cacatgtggc catcagaaat aagccattcc 111660  
atcctggaca acatggcaaa atcctgtctc tacaaaaaat taaaatcagc caggcatggt 111720  
ggtgtgtgcc tgtgggtccca gctacttggg aggatgagat gggaagattt gttgagccca 111780  
ggaggttgaa accagcctgg gcaatatggt gacacctcat ctctaaaaaa aagtttaaaa 111840  
attagccaaa catggtagtg tgtgcctgta gtctcaatta ctctggaggt tgaggtggga 111900  
ggatcgctg agcctagaag gcagaggttg cagtgaacca agatcatgtc attgcactct 111960  
agatcacaac tctatatcaa caacaacaac aacaacaaaa aaaaagaggg gggaaagaag 112020  
ccattctca caccaatatg ggataagctc cttgacctct aagggtatag attgcatcct 112080  
gctgtgggtt ttcgaatctc tcccctacct tgttttgttg ctgtgaaatg cctcatgatc 112140  
atgtccaagt atgtctttca ctggctgatt tccgaatcac gttctaattg cttggccctg 112200  
ccatgtggac ccagtattca ttttgagcat aactgtacta aatctttctt tctagatcag 112260  
tgtaataaag gtgtaatgtg caacttaaaa taaataaaag cttgtgtctt tttgtttgtt 112320  
ttgttttgag acaaggctct gctctgtcat ccatgctgga gtgcagtggg gtgatcatag 112380  
ctcactgcag cctcaaacc cttgggtcag tcaagcagtc ctccctgcctc agcccccaa 112440

RTS-0297-53-PATENT

gtagctgcag ttacaggcgc gcaccacccat gcctggctaa cttgttggtg tttgtttggt 112500  
tttcgtagat tcatgggtctt gctaagttcc ccaggctggt ctccatgttc tgagctcaag 112560  
tgatcctctc acctcggcct cccagagtgc tgggggttaca ggtgtgagcc acaacaccca 112620  
gcctcagaaa atagctatag aatatatata caaggaaata gaaaggaatt taaatctttc 112680  
actataaata atcaacaaaa cataaaaagg aggctggatg tgggtggctca cacctataat 112740  
cccagcactt caggcagatc acttgagctc aggagtgtga gaccaacctg ggcaacatgg 112800  
caaaaccctg tctctacaaa aaaaaaacta gctgcgcagtg gtggcacgca cctgtagtcc 112860  
cagctgctca ggaggctgag gcaggagaat tgattgagcc tgggaaggag aagggtgcag 112920  
tgagccaaga tcatgacatt gctcctccag cctgggcaag gagagtgaag ccctgtctca 112980  
aaaaaaaaaa aaaaaaaaaa aaaaaaacct aaaaaaacag taattcagga aatgaaggac 113040  
ataaaaaact ttaaggaatg tacaaaacaa atagccaaat gacagaagtc cctccttctc 113100  
agtgttact ttaaataata atgggttaaa ctttccaaag gacagagatt ggcataatgg 113160  
gtaaaaatta caggatccca gtatatataa gagatttaca ttagttccaa aaacacaatt 113220  
ttaaagtgaagggttgaaa atgggtatccc atgcaagtag taaccaaaag aaagcaggag 113280  
tgattataat aatatcagtc aaaatagact ttaaatttaa acagggttga agagacaagg 113340  
acattcactg ttgggtggaa tgtaaaatgg tacacctggg ggggaaaaca ggatggcagc 113400  
tccttaaaaa attaaaaata gaattaccgt attatccact aattctactt ctggccaaag 113460  
tgggtagatc acttgagccc aggagttaa gaccagcctg ggcaacatgg caaaaccctg 113520  
tctctacaga aagtacaaga aattagccgg gtgtgggtggc atgtgcctgt atccagcta 113580  
cttgggagac tgagggtgatc aaggaggatt gcttgagcct gggagggtga ggttgagctg 113640  
agtgccactg cactccagcc tgggtgacag atccagaccc tgtctcaaat aataataata 113700  
ataataataa taaattttttt aaaattttatt ttagaagaat tatttatagt ttctctgtga 113760  
ccacttccct gatgatacat atgttgccat acttaacaaa taccaccttc ccttggtgct 113820  
gtacctaca agttatcacc atcctgaatt gtatacttat catttccaag aaaaatattt 113880  
ttattgtatg tgtaatttcc aattaaaaca tattgcatat tgtttgaaaa ttaaataatt 113940  
tattttaaatt gcttactctt ttcttgatac ttatacctat attaaaagac attataccta 114000  
taataaaaaat tacatcacct gaaaaaaaag tatgtgtata ttaccacagt tacaagaat 114060  
agaaaaagg gctctgaca gtgtctgcca cttagcgctg tagatgagtt agtttgtcta 114120  
aatatgaagt cgttttttact tttcttttgc tgggtctcatt tccattttca ttgttttttg 114180  
tttgatctaa aatttttactg atatcatttt tgtaggctct tgggatgctc ttctggcata 114240  
aacataatat cgaaaagtca ttggctgatt tgcccaactt taccctttc ccagatgagt 114300  
ggactgtgga agataaagtc ttatttgagc aagcctttag ttttcatggg aaaacttttc 114360  
atagaatcca acaaatggta agtagatgag accactgagt tctatttttt ttctcctatc 114420  
taactctctt ttgcagcata cttgagatag ggatatcata ctcaaacata aatattccca 114480  
tttttgataa agttccctt tagattcagc ttagtacatg ctgctctgtg gatgggagtt 114540  
ttccagttac aggagtaaag cacttctagc acttcccatc ctgtcgtctg tgactggacc 114600  
ctccccaccc accccagtcc ctcttggttg gactcccaa agattagacc catacgaagg 114660  
actttttttt ttttagacgga gtctcgctct atcaccagc tggagtgcag tggcatgatc 114720  
ttggctcact gcaacctccg cctcccgggt tcaagcgatt ctctgcctc agcctcctga 114780  
gtagcttggg actacaggtg cgtgccacca cggccggcta attttttgta tctttttttt 114840  
ttttttttga gatggagtct cactgtgtcg cccaggctgg agtgcagtgg cgcatctcg 114900  
gctcactgaa agctccgct cccgggttca cgccattctc ctgtctcagc ctcccagta 114960  
gctgggacta taggcgccc ctaccacgcc cggctaattt tttgtatttt tagtaaagac 115020  
aggatttcac catgttggcc aggatggtct cgatctcttg acctcgtgat ccaccgcct 115080

cggcctccca aagtgctggg attacaggcg tgagtcacca catccggcct aattttttgt 115140  
atcttttagta gagacggggt ttcaccatat tagccaggat ggtctccatc tcctgacctc 115200  
gtgatccgcc tgccttagcc acccaaagtg ctgggattac aggcgtgagc cgctgcgccc 115260  
ggccttaaac atttgatttt taaagattac ttttttattt aaataaacca actcattttt 115320  
tatgttttagc ttccagataa atctatagca agtctggtga aattttacta ttcttggaag 115380  
aagacgagga ctaaaactag tgtgatggat cgccatgccc ggaaacaaaa acgggagcgg 115440  
gaggagaggt gagcacatgg ctgggggtgt gtctaaccac ttagggggact atctaagagc 115500  
cccagataca caaaggcaag gcagaatgac tggttttccc tccgcgcctt cctggtggaa 115560  
ccacatgttc atgagatgta ttagagcgtg tcacattatt caggtatttt ttctcaccac 115620  
tctttccctg cagtcagtga acttccattt tgagtcagtt aactttgacc catttttttt 115680  
ccttccattt tagaaggggt ggctcctttt aataaaaaag aatcttttat tttgtagttt 115740  
gaggtttaac gtggtatatt tttaacaagat tcatttggtg tgtttttatg tttgccatgt 115800  
ggaaacaaaa atacaactta gagttgctgc ttcttttttt gaccatctgt tttttgtgtg 115860  
tgaatgagaa agagaaacat ttataatct cttagtaagg atattagttt taaggatagc 115920  
tcagtatgga gaatacttct taaccatcac ttctcagtc ttatatgtag catagagaag 115980  
tagaaatggc caggtactca cactcagaaa tgggctctgg tctcagctct gaagattcca 116040  
cttacatgcc acaggctaca ctgggatgtt taaggctctt aattttattt ttaaaatgtg 116100  
taaaattgta catactcaca ggcaggtgac ttcaacatgc gtcttcccca agcttctgtt 116160  
ttccttaact ctaaaatgaa gatgtttgaa gtccagaagg cagcatgcag acctagtgg 116220  
ttccttggtt ggggtggtgag atatataggt ggggttttaa aaatcctatt ttccacattt 116280  
cctgtaatat ttttatcaat taataataaa aaaataaaat gaaggaggat gaaatatatg 116340  
gtccccggtg tcccatctca ggatggaatt ttatcatttc aaatgaaaga gtaacatgtg 116400  
agaacacatt gaaagttgag tatcactttt ggagaattca aacctcttgg cccaagtata 116460  
aattgagagt gatgttaaga acatctccaa agctctttta attgtaagag cctataaaat 116520  
tatcgaccat gatacatctg catatttttg cctctgactt atatactagt aggtttattt 116580  
atggatgagt actcttatta acttttaatg aagctttttc atttccctag tttactgtct 116640  
atatagtaag tctgttacta taagcagatg cagtttacta agcagcaatc aaaattaaat 116700  
aatacagagt gggattggat atccttgagt gtgaaataag aatacctgcc aacacttcca 116760  
ttcttactcc ctggaggctt tttttttgca ttagtcccga tggggccagg aagtgccttg 116820  
cctccacctc ccatgtgcac ctcaaccact tttgggatgc ggggatggag gtgctgcagc 116880  
agcacctgat aaattggttg ctttctaaca ggacttgctt gtgaaagtca tggcagggac 116940  
tgggacaaaa ttcccttagc cgaaggctct ttcttggtgt ggacactctt tcctcagcta 117000  
gagcttcctg ctaccttggg ggaggatggg gaggaggtgg cgcgtagtgg gcatggtccc 117060  
gtgggatgga ttccagaggc agtgcgaggt gggcaaactg gggcaggcta cttgacttct 117120  
gtagacttag ttttcttttt ttacagttgc attcctacct acatcggggc ttttcttggt 117180  
tctttgtttt aaattaaatg aaatactaca ttcaggatat taaaaaagc atttaaagt 117240  
ctataccaat gtaagttttc tttttaaaat taaacataat tttaaaacat cagttgtcca 117300  
ggacaccaga aaagcctcag actttgtgtg gccttgggta gaaagacggg acttggaata 117360  
ggattttttt actgttagca ggtttattcc caatgcagtg gaaatttatt ctcccataat 117420  
ttctcagttt tgttttagta tcatatccta gtcctcaata gataattatg agaaaataac 117480  
atgtaaagtc attttcattt tgatattttc agtttacaga tatagagcaa tagtgtttta 117540  
gatctggatt ggggaagttg gaatctattt tagtagtttc tcatcactta gactgaaaga 117600  
actatggagt tggatattct tttgaattac aaagatgttt ttatctcagc agcctgaaaa 117660  
catactaatt ttatattaaa tcagttttatt atttatattt ggtaaaatta gtacaaaatt 117720

ttcagttaaa tcaatattatc gtttgtattc ggaaaattag tacaaaataa tcattcagta 117780  
acttgttctt gtcttccagc gaggatgaac tggaagaggc aaatggaaac aatcccattg 117840  
acattgaggt tgatcaaaac aaggaaagca aaaaggagggt attttttccc cctagtattg 117900  
tttaggcgaa taaatattat tactagtttc ataaataaaa cattcatggt gcttgttcta 117960  
cttaatatat taagtgtat gtggaaagca gcatgatatg actatttttc aacaatactg 118020  
tctttgcttt atagattgta taatattgtt tgctaataga tatgaataaa ggaaggctta 118080  
aaggatagaa aatagcacta atgagtaatg atgttcccta gaacagcagt cctcactgac 118140  
tttcttcgta agccattagc tcagtaggtt aacaagtggc ctagtgaatt ccaggcagcc 118200  
ttagggtctc cattcacgct atagatgccc cagcgtctgc ccatcctagg cacccatgcc 118260  
gtgcctgggg tgactgcagg gagctggcag ggactcggca cagccctcct gttactcaga 118320  
agcagcaatt tgggtcacacc agggggagcc aggaccatcc tctctcacat ggtgactgtt 118380  
tcactttatc attttaaaaa atcattatac aagagattgt agtttctgga ttcagggggc 118440  
tcgtgaacct ctacaattgc atgtaacttt tacataggtt catagaggta tttttccaaa 118500  
gacacagtct atagtttcaa aaaaatttct cagagagttc tctctctctg ctccaaatta 118560  
taagaatagt tattatttta agcctataaa aacagaaggg tctaaattta tctaaacttt 118620  
aaaatgacat cagtaataa tgtttcttat agacaaggta ggaaatacag ctaactgaaa 118680  
gaagaaaatt aaagtgattt ataataattat ccataatcac tgtcaacctt ttggtgactt 118740  
tttcttgaga actctttctg taaaatgtat atgcctgtat attcataatt ctgaatctag 118800  
tcacttttta aaaataatat aatggaagct ttgtaatttt tagaaccttt taaatttact 118860  
ctaccttgat ttttttttct tcttttttct tttttgagac agggctctct gtgtcaccca 118920  
ggttggaatg cagtggcacc atgactcact gcagccgcca actcctgggc tcaagcagtc 118980  
cttccactat ggccctgcaa agtgctggga taacaggcat gagccacctc cagcccttga 119040  
ttttattttt ttttattttg tttttgagac agtctctcac tctgttgccc aggctggagt 119100  
gcagtagtat gaccttggt cactgcaacc tctgcctccc agattcaagt gattctcctg 119160  
cctcagccta ccgagtagct gggattatag gcacatgcca ccacgccctg ctaggttttt 119220  
ttttttgtat ttttagtaga gatgggggtt catcatgttg gccaggctgg accttgaatt 119280  
tttttttatg tcaaatatat ttgtatacgt agctatatat tattctgtca catgaatgtt 119340  
tcataattga gttaccttat cctatgtgga tttcccagtt gtttattcct cctgtttttt 119400  
gcttttataa acaatgctgg attgattctc acataactca ctatctgtgc tcatagattt 119460  
ttttcattag aaccgattcc tggaagtgtt attgttgagt caacgtgttc tagatacatt 119520  
gttaaggctt tttttttttt ttttggtgtt atatcaccaa attggaaatt ggtcgttttt 119580  
ttctgcataa tttatatgaa tgcccaaata agatcctgag ggtagctaa attagattgt 119640  
ttgggaaatc aaattgtagt tgtagttttt attaagcttt gtgttgatgt attgctattt 119700  
actaggtttt tcagtggcac attttaaatg agagaaaaca cttgatttca tacattttta 119760  
taattcttat ttatataatt tctgattcag aaagaaaatg gctaaatcat tgtttttttt 119820  
tttttttttt ttttttgag atggagtctt gctctgttgc ccaggctgga gtgcagtggc 119880  
ccgatctcag ctactgcag cctctgcctc ccaggttcaa gcagttctct gcttcagcct 119940  
cccaagtagc tgggattaca ggggcccga accatgcctg gctaattttt gtattttttac 120000  
tagagacgga gtttcacat cttggccagg ctggttttga actcctgacc tcaagtgatc 120060  
cacccacctc ggccctcctaa agtgctgaga ttacagccgt gagccaccac acctggcccc 120120  
tagtttcttt tttttttttt tgagacggag cctcactgtg tcgcccaggc tggagtgcag 120180  
tggtgcaatc tcggctcact gcaagctgcg cctcccaggt tcatgccatt ctctgcctc 120240  
agcctcccgc cattctcctg cttcagcctc ccaagtagct ggggctacag gcgcccgcga 120300  
ccgcacctgg ctaatttttt gtagtttttag tagagatggg gtttactgt gttagccagg 120360



gtggtctcaa tctcctgact tctgtgatccg cccgcctcag cctcccaaag tgctgggatt 120420  
acaggcatga gccaccatgc ccagccacct ggcccgtagt ttttttaagt attaaaatga 120480  
tactagaaca gacgtagtca gttggtgatc tttattaaac atcgtagtcc catacacagc 120540  
agttttattgc ctactaatat ttttgtatta cccacttggt gaagaaatta tcactaccat 120600  
tatagttttg cagtgtcttt agctcagtct tttaaaatat gaagcagaaa gtcataatttt 120660  
cagctttatc agtgaatgct aatgcactaa caagatggaa ttatgagcaa ttataaaaaac 120720  
ttcttgttct taaaatgggt accagtaagt tatattcttt aacttgacaa gattttactg 120780  
tgtttcattt ctgaaagttt tggttttaca gaaattaata gccgtcatgc attttaaaat 120840  
gataaggtat attatttttag agtaagttat ataagttgcc gtaaaaattg tgttatccaa 120900  
aaatgtgtat aaaaagctgt aatttcatgt agctaaatac agatgtgtgt gtggccacaa 120960  
aactcattag cagagaatac agattttttt ctttctatat tactagagga agctgagaat 121020  
tcttattttt attggcttga aacgatagag taaggaagta tttgtacaag aaggagtggg 121080  
acacagttt attgtgttta gtcaaaactc agtagcccaa attctgtctg tgaactgcct 121140  
gttagaattt atagatctca tttggttctg atagggcatg gtatttgtct tagattgttt 121200  
tggtgccatg ttaaggaaat aaatatgttt attactgatc atttgacttt ttttaagttt 121260  
cattcatcac ctgtgtatat catgcagggt cccctactg agacagttcc tcagggtcaa 121320  
aaagaaaaac atagcacaca agctaaaaat agagcaaaaa ggaaacctcc aaaaggaatg 121380  
tttctttctc aagaagatgt ggaggctgtt tctgccaatg cactgctgc taccacggtg 121440  
ctgagacaac tagacatgga attggtttca gtcaaacgac aggtactcat aagcctggtc 121500  
ttggatgtaa aagaattaat tagcacttta gaggtgtttc tgttattcat atatgtgaat 121560  
gttctctttc cgcaaactc aaaggagcat tttgtttcga aggaattgga cagatcttaa 121620  
gtaccagccc attgtttttc tttttaatga acatataaat tgaagtgtat ggatatagt 121680  
tgatctgaaa gtatttctga agtatatagc aaagcatatg aatatcatat ttatattata 121740  
tatgtgtctg tgtctccatg atttctcaca atatgaacat accctagtaa cctgcatctg 121800  
gatcaaaaaa tggaatgttg cccccaggcc catgcatttt cctcctggt cactattcca 121860  
tggaatgttg cattccctca gcaactccac cctcttttta ttacctgact cctccttgta 121920  
ggtaggacct attctgattt tttttttttt tgagacggtg tctcgctctg tcgcccaggc 121980  
tggagtgcag tggcgcgatc ccggctcact gcaagctctg cctccccagt tcatgccatt 122040  
ttctgcctc agcctcccga gtagctggga ctacaggcac ccaccaccac gccagctaa 122100  
ttgttttttg tatgttttag agagacgggg ttttaccatg ttagccagga tggctctcat 122160  
ctcctgatct catgatccac ccgcctcggc ctcccaaagt gctggaatta caggcgtgag 122220  
ccaccgcgcc cgccctgat tttttttaat tttattttgt ttttgagaca gtgtcttgtc 122280  
ctgttgccca ggctggagtg cagcgggtgcg atcttggtc actgtaacct ttgcttccgg 122340  
ggctcaaagt atcctcccat ctacgcctcc caagtagttg ggagtacagg cgcttgtcat 122400  
cacacctggc taattttttg tgtttttggg agagacgggg ttttgccata ttcccaggc 122460  
tggctctgaa ctctgagct caagtgatct gcccgcctca gcctcccaa gtgtactgag 122520  
attacaggtg tgagctacca cactcggccc tgttctgatt tttaaaacca taagttgttt 122580  
ttgtccattt ttgaatttta tataaatgaa agtcatgtgg tactgtttat tttatgtctg 122640  
gctttctttc aacctgagag ctaaacagtt tttcaaagt gtcctgtcat tttatgtgcg 122700  
ttttgtttgc acatcagcgt ttcccagctg tagcactatc ctcatgatgg gccgttctgt 122760  
gcactgtaag atgttgagca gcatccctgg tcttgacca gtagatgcta gtagaccct 122820  
cccctaccag ttgtgacaac agaaatatcc ctaggcatca ccagattacc tcacaggggc 122880  
aaaattgtcc ccatttgaga accactgctc tacatcattg ccatattttg gtagtcttaa 122940  
attttagccc ttctgatggg ttataatgat gcctcattgt actttttatt tggcagttcc 123000

ctgatgacta atgaggttgc tcaccttttc atccatttgt tggtcatttg gatatcctct 123060  
tttgtgacat gtctactcaa gtctcatctg ttttttttct gtcaggttgc gtatttttctt 123120  
attggtttat aggtgttctt taggctctga gttgttttct acaacttgta ttttaaagtc 123180  
tgtaaataatg ttttgcattc tgtgactctc aatggatatct tttgatgaac agtaattctt 123240  
cattttaagg tagtttagtt tcttagtctt ctgaggttag tgtttttgag ttctgttcac 123300  
ctttctcaag gtcattgacga tattctctca tgttagtctt agaagtgttg ttttaccttt 123360  
tacattttga tctagaaatg tttttctgta tttgttggtta catgtcggat taatagtcac 123420  
tgttttgttt tcatatgagt atcaatttgg tcaagtattt attgaagaaa ctgtccttta 123480  
tcctttgcaa cgcagcagga cctttgtttt acatccagtg tctgtatgca tatgggtctg 123540  
gtttgagggt ctctgttctt ttaatctctt tgtccatcct tcaccaatac atactgtcct 123600  
aactttatgt actttattaa ttttagttatc tgggtgtaata taagttctcc aagattgtct 123660  
tggttatccc tggcctttta ctttccatat aaaatttaga attactttat caattttcag 123720  
aaaaataatt ctattagagt tttgattggg attgtattgc atctatagat aaaaatggag 123780  
aattaacatc tttattgagt tttctgatca gtgaacctga tatacccctc tacttctata 123840  
ggtttgtaat ttctctcaat gttgtattgt tttctgtgta agaacttaac gcactttttg 123900  
ttagtcattc catgatattt ggtacttttt tgggtgctctt gtaaaggata ttgtttttta 123960  
aattactttt tataattatt tttgctgtct atgtagctta ttattttaat ctgattgcat 124020  
agtacattta aactgaaaat tcaacctagt agttgggtcc tgtcctttca ttctctctct 124080  
ggaattcagt ttccagaaat ccatcagcaa gttgttgact gactattttt ggtttttgct 124140  
gcttttgatt tatcttgatg gttcccttgg aaggcacaac agtagacca ctgtcatctc 124200  
atagacgcga agagcagggc gtgctgctgt ctttcttgtg gtttagggag gcagccaga 124260  
ccaggacca agcacactct gtgtgctcag aggagcggct tcttcttgtg gctgctggca 124320  
cagctgcact ctaatcttag gagaatcact taatctttct aggcctcttt tcaaagaga 124380  
ttaatcctgg cctgcctgat ctcacagaat atgtctgggc tactgtgtga gagagcattt 124440  
gaagtctctg ttgactgga agaactgtct cgggctgtga gctcttgtt acattgtcat 124500  
cttctttac aaggatgctc ctttctcct ctgctgagt agctcctggt ggttgcctgtt 124560  
taatataatg agaaaagaaa aagaggcctt cctcttgac cgagggtgta ttgactccat 124620  
agggtgagag agaaaagatt ctttagtttt cagagcaggg tcaagagcaa gaatttttaa 124680  
aatttgaagg tcgctcacia ttatgaagag ggaggactca gcctcactca gagaggaggt 124740  
gggtgatttc ctttccacag ctttttagcg ccacagtga gcagtgtgtt cattgccaaa 124800  
tgtgcttcta gactcaaaat gggcagtcag tccacttggg ccacttgttc tggaggccgc 124860  
catgtttggt atatcaagga tatattctga aaataacagc aaactcgact aacaacagct 124920  
taaacaattt agggtttatt tttctcaaat ggcaagaagt gccaacatca gtggctactg 124980  
gtgttagttc atgtgttcag tcatgtctc agggaccag gtacttttca ggtcttctac 125040  
tgtgccattc tcagctgttg gcttttcatc ttgcttgttg cctcatgttg gaagctactg 125100  
gagccatttt gcaacctca catctgcatt cagggcagta tgaagaggag gtgggggtgg 125160  
aggtaacctg tctgtccctt ttagcaggac aagcaaaagc cttaccggaa gctccttagc 125220  
tgaattctgt gtgccgtgc gttgcgtact gctcttctc cttcccaaga catcatcaac 125280  
ctctaccagc gagaaggggg ctgggcatgt ctcttaaatt agccagtga cagtgtggt 125340  
tgcatcaggt ctttctctga gtggagaata aagtgtctg atgttaaaag aggaatcact 125400  
gtgccacag taaagtagaa aacagaaagt tctgtatgac tgagggttgg gtggggaggt 125460  
ggtgtctagg tagggcgta ggacaagtgg atggctttt tttttcatct tgttttttct 125520  
ttaagtgtga ttacctttgc atcctatttc ttacctatt cattgccact cactttccag 125580  
ttagcatgat ggtggcagta atctctgttt ttttctgct taataaacac tagatgtttg 125640

gcgggggggaa gggggcgat tttgtttttt ggagacagga tcttgctctg ttgtccatcc 125700  
tgggactgta gtgatacagt catggatcac agtagcctca aaggcctggg ctcaagcagt 125760  
tgcccacctc agccccctaa gtaggtagga ctgcagggtga gcaccaccac acctggctaa 125820  
ttttaaaatt tttttggtag agacagggtc ttgctgtgtc acccaggctg ttcttgaact 125880  
cctgggctca aatgatcctt cctgccttgg cctcccaaag ggctgtgatt acagggtgtga 125940  
gccactgcac tagcataatt tttttttggc agggctctggc actgtcaccc aggttgaagt 126000  
gcagtgggtgc gatctcggct cactgcaacc cctgcctccc agactcaagc tatectccca 126060  
cctcagcctc gcaagtagtt gggactacac agcctagata tttcttcttc ttcttcttct 126120  
ttttttaaaa ttatacttta agttctaggg tacatgtgca caacgtgcag gtttattaca 126180  
tatgtatgca tgtgccatgt tgggtgtgctg caccacttc gtcatttaca ttaggtatat 126240  
ctcctaattgc tatecctccc cactcccccac accccacgac agggcccggg gtgtgatgtt 126300  
tccccatcct gtgtccaagt gttctcattg ttcaattccc acctatgagt gagaacatgc 126360  
gggtgtttggg tttctgtcct tgcgatagtt tgctcagaat gatggtttcc agcttcatcc 126420  
atgtccttac aaaggacata aactcactct tttttatggc tgcatagtat tccatgggtat 126480  
atatgcagcc tagatatttc tgatacggaa aatgcatcag gaagaggggt ataggctact 126540  
gagcatttag agctagcttt tagttcagaa ttttagatgt ttgcatтта ctctctctgc 126600  
ttcttttata acgttactta atcacagtgc aatatatacc cagttttgta ctatctatga 126660  
acaaccagct agagtgcaca gagtggtctg tttcactgga atgcgaagag gacatgtaat 126720  
attctaaacc ttgacttttt cctgccaaaa gttgctatgt tgcattttta gccaaaaagg 126780  
aatccagtgat acataatctg agtactttgc aattttctctg ggttttcggg aactgaaaga 126840  
ccactgagca agatcctaag agattgtaat gtctagcatg gcagccagca gcccctatgtg 126900  
tggttgttta aatttagatt aattacaagt gaaaaaatt taaaaatttt cgggtagcat 126960  
cttctactca tgaatgtctt ttacatttta cttgagaaaa tcaagctcct cttccgttgg 127020  
ctttcttagt tgcttgtgtg attattcaaa gatgaaaaat gctggagttc agagtccct 127080  
gggtgcttgac acggatatgc cctctacttg gagtagagag aaaatagcat acttccgtga 127140  
cctgtctcat tcaaggggtc atgggaaaat taaggagcag ccatagcctg ggaggttggg 127200  
attgtttgtg gtctttcttt cgactgggtg aggcagtgat aagattacct tgagccaagg 127260  
cagtaatgtg gaaaaagata atttgtagga aagtgaagac gtgacagtta atcaaagtta 127320  
gacttctgga aatctcactg acattgtgtt ttctctgccc ccccatcatt aaagaaatct 127380  
atgcttgtgc acttctgccc tgtgtagaag cgggtggacag cacagtgatc ttggggcgct 127440  
gtgaggctgc acccgagtt ctgttgtaaa gactgggcct ttttggctct tactgtggct 127500  
gctctgttac ttcagttcaa tctatgtgg tagtaagccc agggatttct tctgtctttt 127560  
atgtaagact ccaggtaggt gttttgtgct tcaggatatca cctgttagga agctgtggat 127620  
ccaggactgt gtacgtgaga gccctcgtc cctcctcct tgggtgttac cttatctgtt 127680  
gctctgaaca agcaaataat aaacctagtt agatgcttca aaggatacca tagggatctc 127740  
agaattcagc tacaacagat gttagtaacg tctttactct tgggtttttg tttctttagg 127800  
tttttaagtt ctgttttcat acctttatat agtttttatt tttaaaatga aaattatttt 127860  
ttccttecta gatccagaat attaaacaga caaacagtgc tctcaaagaa aaacttgatg 127920  
gtggaataga accatatcga cttccagagg taggattatg ttaacatcat cttagaagtc 127980  
atattcaagt tttacatgtt taagaattta atatcggtgt gatacatccc cagtatacat 128040  
ctcttggaag agtatatgga cataatttta tgaaccaggt tgatgttaaa attccgataa 128100  
gagaaaatga aaggttcgtt aagctcataa ggacatactc atctctaaat gtaatgtgct 128160  
aaaatgactc atttgatgat ccaggtcatt cagaaaatgta atgcacgttg gactacagaa 128220  
gagcagcttc tcgccgtaca aggtagggggg aagttcttct aaagagttta ggaggccggc 128280

tgtggtggct cacacctgta atcccaacat tttggaagggt tgacgcattt gcttgagccc 128340  
aggagctcaa ggctgcattg atccatgatc acaccactgc attccagcct ggacaacaga 128400  
gggagaccct gacttttaaaa aaaaaaaatt ttttttttaa tggaaaaaaa agagcttagg 128460  
agcattggta gatttttaggg aaaagttacg tcttgcctta ctcccagcac ctagattctt 128520  
ggacaattat gtcctagtgg atatcatttt agccaaatta ctgtattcct ttgggctttt 128580  
ttcttttctt tcccacttc tcacaagttg taaaaactta accgggaacc ctgagtcctt 128640  
taaagggtgta tttcatttta ctagttactc atcgagctct gactagccag gaagtacaaa 128700  
accccaaaaag aagcagacag agtggttcagc tttaaagggt gggggtgctc tggacctgcg 128760  
ataccaaaag atgaatgcag aatgtcccca accctagggc aattgctggg tgacttcagc 128820  
tgttatgtga catgtaatgg gaagacagat atcaaaatga cagggtcggg catctccaga 128880  
atgtgtctag aattggctgg tactttttcc tactctaata atacacgaaa ttattgcttg 128940  
ctgttaaaaag cctgtatgtt ttcttatctg gataaagagg taagtgtcac ttgtggtttt 129000  
aaaaaaatgt ttttctcttg tatttttaaaa aatgctttct tacatcctta gccatcagga 129060  
aatatggccg agattttcag gcaatctcag acgtgattgg gaacaaatca gtggtacaag 129120  
tgaaaaactt ttttgtaaat tatcgacgcc gcttcaacat agatgaagtt ttacaagaat 129180  
gggaggcaga acatggtaaa gaagagacca atgggcccag taaccagaag cctgtgaagt 129240  
ccccagataa ttccattaag atgcccgaag aggaagacga ggtaaatctg aaacaaaaca 129300  
gtcacttctc ttgtcagggt cacgcttgat actccagttt ctaaagtgat gaattttttc 129360  
agctatagag attttttaggt atcagctgta ttagtaactt cactcttacc tgtaaatagc 129420  
cggaatgtgt atgcattgac tccagttctt ggtgcctgta tattattcac atgttaattt 129480  
ctgggcaaat cctgaattac atcctgattt cctccagcta caaaatactc tgcattatca 129540  
gtttttctct aaatacagta aaatcttgag tgacaaagac aggggagtggt gggcataaac 129600  
aaaaagtaaa aatgcagtga aagctgtcct gtctgtgagg gatgtcgatg aagctccgtc 129660  
atctgcaatg tgcagtcaca tcatcatgac gcagcacagc gagccagcca ggagctcctg 129720  
aggcctctcc ctgctgtcca gatctttcag cctttgatgc tctttggggc tgattggctt 129780  
aagtattgat ggggacagtt ctgtggctgg ctggaacttc tgtgatgggt gctaatttct 129840  
ggaatgataa ccctgggtctc atctgtcacc tccctgcttc ctgtgtcagg ggcacctgcc 129900  
atttccccat ctagcctggc ctgccttgct gttacatttg tccctctatt cccagagcag 129960  
atgagcctgg ggctgggcat aagaaagagt tacttgccaa tcactttgca tctgaatttg 130020  
ttcacaggca tggtaattta agaattaatt tagctttgta aggaaagtca ctttcacatc 130080  
aaagcctttt caaaccatac tggaatgttt tgagattacc tattttgtat tgcgtgtgct 130140  
accattttgc tccaagggcc tggtcttgga aacagcccag aaggcccctc ctgacctgag 130200  
catggaagta cctcgtgagg tattggcatc ccctgggagc gtggtgccc cactccatgc 130260  
agggcctctt tgctgactgg agaaaggacc tcaaggcaca gccatctgta agaaccat 130320  
tgaaacatat taaatttggt agaattagat tcttttagagc cttttgccag aaaatcttta 130380  
taataagtgt accacgtcta taatattgcc aaggtcagta cccctgaatc acccccatgc 130440  
atagctctgc ctgaaaagag catgtgaatt aaatgatggg gtttttatct ttcagcagtg 130500  
atttttttct ttattattat ttctttttat tttcagtgat ttttgtagca gcactaattg 130560  
cccctgtagg cactcagttt cggaagcatt gaaaagctgg agactgctgg ggaagaacca 130620  
ttagaatttg caggaatgaa agcttgcttc ttgtgtgtgt gttttccggc ttcgggtcca 130680  
ggatgactgg aagcagaaac agttgggaac gctggctcta ttccctcttc gcatttgatc 130740  
aaagccagtg ttggctgggc tggcataaca aatctcatag taaatttagg accaagagtc 130800  
cctaccaaca ggatgtcagt tgtgtgcat atgtttttt cttcattctc ttattcttgg 130860  
atcattgggt gactgactta agtgagtcaa gtattttttt tttaaccttg ttattagccc 130920

agaaggttct tccgtaatga tccacttacc gtgtggattg cattatcaaa gtaccgtctt 130980  
tcttttcaca gtctagttat ggctcctcca agcagcagat catagttttt ccttgggtgat 131040  
tgatcttcca tgtctctatt taccagcct tctctgcaaa acaaaatgaa gaatgggtatt 131100  
atctaactcg tgttttagttt catagtcctt atatcccttt acaaactttt tccactccgct 131160  
agtcatttaa aatgtacccc ctcataccctt tcttttcttt tttttttgag acagagtctc 131220  
cctctgtcac ccaggctgga gtgcagtggc tcaatctcgg ctactgcaa cctccatctc 131280  
ccaggttcaa gtgcttctcc tgcctcagcc ctccagcctc ctagtagctg ggattatggg 131340  
tgtgcaccac catgcttggc taatttttgt atttttagta gagatggggt ttcggcatgt 131400  
tgaccaggct ggtttcaaaa ctgctgatct caagtgatcc gctcgcctct gcctcccaa 131460  
gtgctgggat tacaggcatg agccaccgtg cccggcctat ttcttgagtt tctttctttt 131520  
tctgcttctt gtagtgccac ccctgccctg ccacctagtt ttatgttctc catatgttag 131580  
tttgagaag gaaattaatc tagtgaccag ctgcttctct gtgtccaagg gcctaaggga 131640  
acttgttaga atgctggctt acttgtctgt ctggtgagtc cacagaactt ggggtgtgtg 131700  
taatttcacc tttttatttg tcctgtagag tccaacagct gagaaagatg tctgctggtg 131760  
tcttgctgt cccttctgcc ctccagtttt atgtattatg cagaagccac agggagaaca 131820  
tgagaattcc tagaagttct agtaacagaa tggctgtgca gttatagatt atttccttca 131880  
gggcttagag gcaggtaggt agcccaaggc attttgagct tttgaaattc atagttattt 131940  
gacgtggaca aggggtgggtt gggaacagtg tcatatccaa ccttacactg aagaaaggat 132000  
gccatggatt ggacagaaa atgtcactta aaattatgaa atgattaagt ctgttaccag 132060  
tgaggagaaa tctcctcctg tatctaagaa cagttcttgt acatggtatg gtttttagct 132120  
gaaggaacaa tccacttgcg attttggtg catggcccag ttgtttctcc agcaatgaga 132180  
tgccatgagc atggcagaga gcagtaagac gctatgcagc ctttaggttt ggggtctggga 132240  
gtccttttta aaaaatggga gaggggagtt aggaaatgcc tcatagcttt taaagaagat 132300  
cctgggatcg tatgggctcc tgtatcccag ctagaaccag tgactgggtg ctgaacgggc 132360  
tgggtgccac agcatgccct caagccagtg agaggagtta gggctgccac tgtgcttata 132420  
tgcccttttc aggttttttt gtccatttgt gtttttgaga cggagtcttg ttctgttgcc 132480  
cagagcaagt ggagtgcagt ggtacgatct tagctcactg cagcctccat ctcccagct 132540  
cttgattctc gtgcctcagc ctcccaagta gctgggacta cagggtgtgcg ccaccacgca 132600  
cggccaatat ttcttttcag tagatagggt ttgccttttt ggccaggctg gtctcgaatt 132660  
cctgacatca agtgatccac ctgcctcagc ctcccaaagt gctgggatta caggcgtgag 132720  
ccactgtgcc gggccgtttt caggcactta aatttaatcc tggatgaagta ggtattatca 132780  
ctatgtgtct tctgcacatg aagaaactga aactcaaaaa cactgataac ttctttgcac 132840  
atattggggt ttgaggccaa gacgtctggc tggagaggcc acacgcttg cctgccctta 132900  
agaacatggt gggctgggag tgggggcccc cacatgtaat cccagcactt tgggaggccg 132960  
aggcaggcag atcacgaggt caggagttcg agaccagccc ggccaacatg gtgaaacccc 133020  
gtctctactg aaggtacaaa aattagctgg gcgtggaggc aggtgcctgt agttgcggct 133080  
acttgagagg ctgaggcaga ggaatcgctt gacccaggag gcggagggtg cagcgagccg 133140  
agatagcgcc actgcactcc agcctgggag acagagtgag acctgtctcc cctccaaaaa 133200  
aaaaaaaaag aactcgggtg ttgctctgca gggttgctgg ctaccttctc ttttcagtac 133260  
actggaaata gcagcttggt ttgtttacct actctttgat cttttttttt ttttttttcc 133320  
tcttggcctc aggtctctgt tctggatgtc agatatgcat ctgcctcctg agaaactgggt 133380  
ggctttgaac acttgggtgt gactactgtg ttatccggga tatcaggtat tatgagacat 133440  
cacctagcca tctgcatcac atctctctgg acaagcagct attaccaaaa aaggcatata 133500  
cttccagtcc tgtgctccat ctgccttaat tctttgctcg ttccctccatg ttggcgccac 133560

ttcccagaga gctccactgc atctcacact ctgcccacgt gctggggaag tctcacggcc 133620  
tgcacatctc ttgtgactct gggaaccgcc tctcccgcgc gagccccga gccccaccaa 133680  
tggcagctct tcccagtcag cagcttcaga gcaggcagtc tccttggaag gcccgactct 133740  
gttcctgcat ggctgcagc ttctactttg tgcataagct cattttcaga gtcaccgcga 133800  
ccctgttggc cttctagaaa gtttcttttg ttcttttctg agacaaccac ctaagtata 133860  
atacgttttt ttggaaacta atatatattg ccagactgca tcataacctt tatcatgcca 133920  
agcatcctga tgcaactcac atttccctaa acatggggta cagttatgat ttataaattg 133980  
agttggctta aatctccctc ttctcccttc ccaagtgtta caaagatcat ttactgcaac 134040  
tgtcgttggc cactgtagct taaagggaac gtggacctca atgctttctg ctttcaactt 134100  
ttcagcattg tgaccccagg gtggttgcca ccccatcttt tcctgacccc cccaccccc 134160  
ccacctcaa gaggttcggc ccacatcact gtacctggtg cttgtaaatt tgggaattgg 134220  
gccttctcct tttggcaacc atggttatca atccttttct tgttttagtg tcttatttct 134280  
tctttcaagt tatttgctag ccaaagatga catcactgag attaggagac aggggagagc 134340  
ttgctgcaga ttctgacagt gcagatttta aatgtcagga tattagaata gctggcgctg 134400  
gtttatgaaa gctgcgcgtt gttccgcgtt ctctcgggtg gcctggcctt ttatgtggca 134460  
ctctgtatgt cagtttgtgt ccttcatgtg ctgatgtgat tacacaaaca ccatgcactc 134520  
tcttttcata tcagagtaca ggacagagaa gtgatcaatg tattggtcta gtgagactga 134580  
gatgaaaaga aataacctac agagtggctc gtaatgcctt ttggttggac tgggaacaag 134640  
taaaaatttc taataaacat tttgagactt ccagaatcac ttttgttate ttatcagacc 134700  
atgggcctgc tgagggttga gcagacagcc tgcattctaa cataccctgt tccccccca 134760  
cggccattca gactgcactc aatacgtga agtcgctttt gttgttgttg ttgttgttg 134820  
catcatttgg atttttttcc tgctttcaat accaaaaaaa tgcagatgct ttaaggccta 134880  
aacagaattc tgaagaattt aaaatatgca attaaagttt gatatgtttt gtctcccaag 134940  
caccttgttt tttgttgttg ttgttgtgtg tgaagtcagc tgattttctc tttagaaaga 135000  
gggtcagcta gaaacctagg ttttttggaa ttgtaaattt ttttttagta tagtctggag 135060  
agaaaggcta ttcaaaagga aagtacaatg ggacttgctg cccttcatca tctcgttccc 135120  
gtgccagggtg tgtgttggtc acgtaaaagc ctgggaagca tcagaggagt cccggattgc 135180  
tgctgctacc tggagacagg gttagcaaaa taacactagt gatgaggag aggtctcttt 135240  
tcaccataag cctgctgtgt acaccgaggg cggcaggaga agcatgggaa ggagtcagcc 135300  
taagtttgca cattgcataa agggtagact aaggtatgag ctgaagcttt aggttctccg 135360  
tgcttccctc aagacctcct tcttgctaac agaagcagta ggcaattgct gcagtgcgtt 135420  
tctcaccctg ccaatagggtc tgtctgtatc tctgttaagg aaaatagcct ggtccctcct 135480  
ggcagtgcct ggaagcttga tgctaatttt tatatagcgt ggcaaactga ccagcagtgc 135540  
caggccttga tctgtattct gcaatctcc tttacttggt tcctggcact gaatggtctc 135600  
cagccctgaa gaatcacgtg tgatcacagc agctgacctg ggctttctcc ccgagaggaa 135660  
ggggcatgtc atttttattt gacagaggga aaatgggagc tgccttgac tgcctttgtt 135720  
gtgctttccc gcgtaagata gcaactgtgt ttaaactgtt gcattacact gtctttgcaa 135780  
tgatgtaaat gtaagaaatc acttagcttt aaaagcgcag tggtttgatc ttatttatat 135840  
gaagactttt taacatatca agaattagggt gcattggcag gtagggtttg ggggtgtgata 135900  
actgcttcag atggaatgtt cacttaagct ttgtcttctt aaaaattatc aatgtgaatg 135960  
tcataattat atatatattt gtggaaaatt ttctcctaag tataagttat tgtgcaaaat 136020  
atagtgtcat tgatgcaaat aatagtttaa ctttttagttt agaactccta aaagatataa 136080  
attgtattgc atatgcatta aaagtttgtt ttatttaatt ttatgtagat gtgtgaagtg 136140  
ttaggtaaaa tttttttcac ttatccattt aaacaccttg ttacttgaat attgtgttga 136200

ctggtctgca acagtgatcc attctgtaat atagctcttt taactgggaa ggaaccacac 136260  
cccagttgtg ccgattacat tagtgttggc acacagtcgg gtgctagtgt aacacaaatg 136320  
ccgcgttgtc tgggtgtaca gtgtttgtgg agacgccact tcctcaaaat gggtttttgat 136380  
tgtttttaac ctataagacg ttctgatgct cacaaacctc tattcaacac aaaaaacaaa 136440  
catgaaaagg tagttagttg ggttgtaaca gcttactggg gtggactcat aaaacagtgg 136500  
ctttctgttc atctaaagtt tcctcagata ccacagacca ctgttaagtg tgctcattgt 136560  
cactttaaat ttcaacgata ccctatTTTT gtcattctaa atatcagatg tactattggg 136620  
ataattgcac accaaaaata agccaaacag tgcattacgc taactggatc cctgctttta 136680  
tgtgagctaa ggaaagatgg agccaaactcc aacgagggcc tctttttctc tcttgtctag 136740  
cctgtttcta aaccgaatga tccaggattc aagcttctat tgtcaagtga aactttcctc 136800  
agatggactc caggtagcca ggtcacctaa acctagtggg cctgtgcatg gctctttctg 136860  
ccagtccttg aatctctgca gcttctctta cctgtcttac ctgtagtaaa gcacaattgc 136920  
agtggcgtcg cattcagaag aagggaaggt cagcagaggc tatgcatggt gtgtgatgat 136980  
gagtgtttac agccaccttc tcctaaaacg aaatttatac cggggtggat agtattccat 137040  
taggtagact tatcgacttt gctaagtgct ttttagacag cttaaaaaat tttcaagatt 137100  
ttaaagatg tataaggtta agtttgcaa tataatggaa atgctgtata tcttttgaag 137160  
tgatgaaatc cacgttgga ttttaaagaa aatatgttgt aataatgctg ttgtaagtaa 137220  
tattttaatg tctctttgcc tgttttctat ttcagcacat tcattgtggg gaatgttcat 137280  
agcattataa ctgcttagcc attgaatgat aacatttggt agtggaaatt ggaaaattta 137340  
tttgtgaaat tctgcagaat tcatttttct atttccaata tttgtgagg ttaaataaaa 137400  
attttcaagc cattgatgta ataaaatatg aaatgaaagc attttctgca cccccacgct 137460  
ccatcaaagc agtacccttc cctgtaacaa agtgggggttc tttctttcct ttttaagtga 137520  
gcttggggtt tccaaatgtt gaatttcttc caaatcagac cctgtggaaa cactgccagg 137580  
gatgcctttt gtttttagcc ttttgcctca cctgaactga cattcttttt tatatatgat 137640  
aattttatag ttggaatcaa gttgaagcac atgaattcat aaagtttgtg atagttgtgg 137700  
gtttaaatgc aagggttcag taagaggcat ttttcccccc atgggtggat tttctttttt 137760  
cagcctgacc aggcttttgg cctgatacct ggaggcagga tgggtggcagt gcagaggcaa 137820  
gatcactgcc gctgtggcct ctgctcagcc aagagtgcag gcacaccagt gccggtagtt 137880  
tcctgagtag cgtgaagaag ctggcggtgg ctgtggtctc atggtcttcc ctttattagc 137940  
tgggatgtag aatttgatta gatgactact gtagattggg gctagaagtc cagtgcacta 138000  
tccattgtgc cactgagctt gctcactaga taacttctat agaaacccaa tttctaggtc 138060  
caggcagatg gggccctgt gtgtgactgc acagtgtagg agggttgtag aagggtgacc 138120  
gggtccagcc ttcccagcgt ggacagtcta gtggaggaca ctgcacatat cctccaggtg 138180  
acagcagtca gcaccacggc gagtggagcc acagctacag gcaggtctgg gagggaggct 138240  
gcagctgcct cgcactaat ttagagagtg cctgtcccgg agctgagcct gtggaaaggg 138300  
gagaggggtc gcttgggtga ggggtggcacc taggggcca ggccaagagt gttgggacct 138360  
ccgctgtgat ttgtgaaggt ggcttgtggg ctagaacaag aggaaatgag tgccaaggac 138420  
agagaggagg aagggtttagg ccaaggtggc cccctgccaa gatgctgctg gacatctgct 138480  
aggttgggca ctgaaggtgg agccatttgg acttggcctt tagtgacttc aaagaacccc 138540  
gggcgatggc tgaggctggg aagagggagc tatggagggt tgagggagag cccctctcaa 138600  
agactggcct aacttgagcg cgtgcaaggg cacaggatag gaagggatag caggcgggct 138660  
gtgagtcccg agtcagacac atggaggccc tggctccagc tcccttttct cggactgagg 138720  
gggaaaaaaa cacctgtata cagggtgtaga tgaggcgct ctgtgcctca cttcccatca 138780  
tcttggccct ccccaacc cgggttcag acagggtgtga ctgcagcacc ctgaggtagg 138840

tgacctaggg gagctcagga acagcagcct ggaagtagca gggagctcca tccccagggg 138900  
cagctctggg taatctgggt aaggcagcca tagacagcag ctccccctca gcggccccct 138960  
gcagagacca gctcagaaat ggtctaggac tgattctcct tccctgcctc actttttctg 139020  
gccccctact tctgttgctt gggattggtt tctaaagcaa accatttacc cacaaagcct 139080  
catctcaggc tctgcttttg cggggaatct aggccaagac agcaccacag tgagaattac 139140  
aaggctcggg agaggcctgg tgaggtccct gccaggcctg tcccagcctt tcagcttatg 139200  
ggagggagag atcttgagag cacttggtgc tgacactgct ggaaaggcca tagtacc 139257

<210> 12

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> 51

<223> unknown

<221> unsure

<222> 52

<223> unknown

<223>

<400> 12

agtgtctctca aagaaaaact tgatggtgga atagaaccat atcgacttca nnaggtagga 60

ttatgttaac atcatcttag aagtcattt caagttttac atgtttaaga atttaatatc 120

ggtgtgatac aatcccagta tacatctctt ggaagagtat atggacataa ttttatgaac 180

ccagttgatg ttaaaattcc gataagagaa aatgaaagggt tcgttaagct cataaggaca 240

tactcatctc taaatgtaat gtgctaaaat gactcatttg gatatccagg tcattcagaa 300

atgtaatgca cgttggacta cagaagagca gcttctcgcc gtacaaggta gggggaagtt 360

cttctaaaga gtttaggagg ccggctgtgg tggctcacac ctgtaatccc aacatttttg 420

Sequence



aaggttgacg catttgcttg agcccaggag ctcaaggctg cattgatcca tgatcacacc 480  
actgcattcc agcctggaca acagagggag accctgactt t 521

<210> 13

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<400> 13

cagacaaaca gtgctctcaa agaaaaactt gatggtggaa tagaaccata tcgacttcca 60  
gagccatcag gaaatatggc cgagattttc aggcaatctc agacgtgatt gggaacaaat 120  
cagtgtgaca agtgaaaaac ttttttgtaa atgatcgacg ccgcttcaac atagatgaag 180  
ttttacaaga atgggaggca gaacatggta aagaagagac caatggggccc agtaaccaga 240  
agcctgtgaa gtccccagat aattccatta agatgcccga agaggaagac gaggctcctg 300  
ttctggatgt cagatatgca tctgcctctt gagtaactgg tggctttgta cacttgggtgt 360  
ggactactgt gttatccggg atatcaggta tatgagacat cactatcca 409

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 14

tggacgagcc cgagctgcct

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 15

ttgggtgacc agaccaacat

20

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 16

gcttctgaca gatatttgatt

20

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 17

tccaagagc ctgttccatg

20

<210> 18

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 18

caaatcagcc aatgactttt

20

<210> 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

gacttgctat agatttatct

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

actagtttta gtcctcgtct

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 21

tgtcaatggg attgtttcca

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22

acctgaggaa ctgtctcagt

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

tttttgacct gaggaactgt

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

acattccttt tggaggtttc

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

tcttcttgag aaagaaacat

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Antisense Oligonucleotide

<400> 26

ccacatcttc ttgagaaaga

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 27

acagcctcca catcttcttg

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 28

agcagtggca ttggcagaaa

20

&lt;210&gt; 29

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 29

attccaccat caagtttttc

20

&lt;210&gt; 30

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 30

tctgaatgac ctctggaagt

20

&lt;210&gt; 31

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 31

attacatttc tgaatgacct

20

&lt;210&gt; 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

tacggcgaga agctgctctt

20

<210> 33

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33

atggcttgta cggcgagaag

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

ttcctgatgg cttgtacggc

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

aaaaagtttt tcacttgtag

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

gcgtcgataa ttacaaaaa

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37

catctatggt gaagcggcgt

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

aacttcatct atgttgaagc

20

RTS-0297



<210> 39

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

tgtaaaactt catctatggt

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40

attcttgtaa aacttcatt

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41

tccattctt gtaaaacttc

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42

gaacaggagc ctcgtcttcc

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

tcaggaggca gatgcatatc

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

agtccacacc aagtgttcaa

20

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 45

cagatggcta ggtgatgtct

20

&lt;210&gt; 46

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 46

tgatgcagat ggctagggtga

20

&lt;210&gt; 47

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 47

agatgtgatg cagatggcta

20

&lt;210&gt; 48

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 48

tttggttaata gctgcttgct

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

caagagatgt gcaggccgtg

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

caggccatgc aggaacagag

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

aactgcaggc catgcaggaa

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

aagtagaaac tgcaggccat

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53

ggttggtctca gaaaagaaca

20

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54

aaaagcgtat tatcacttag

20

<210> 55

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55

atcataactg taccccatgt

20

<210> 56

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56

gtgatgtggg ccgaacctct

20

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

aaggagaagg caccaattcc

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

atcagcacat gaaggacaca

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59

aaattttttac ttgttcccag

20

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60

cctaggtttc tagctgaccc

20

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

agacctattg gcagggtgag

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62

cacgtgattc ttcagggctg

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

ctgctgtgat cacacgtgat

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

atatgttaaa aagtcttcat

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

ttcttgatat gttaaaaagt

20



<210> 66  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

acaaagctta agtgaacatt

20

<210> 67  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

tgtgttacac tagcacccga

20

<210> 68  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

aacactgtac acccagacaa

20

<210> 69  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

cttatagggtt aaaaacaatc

20

<210> 70

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70

ctgatattta gaatgacaaa

20

<210> 71

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71

tttagaaaca ggctagacaa

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 72

acgccactgc aattgtgctt

20

&lt;210&gt; 73

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 73

cttcccttct tctgaatgcg

20

&lt;210&gt; 74

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 74

cggtataaat ttcgttttag

20

&lt;210&gt; 75

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 75

cctaattgaa tactatccac

20

&lt;210&gt; 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

tatatttgca aacttaacct

20

<210> 77

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

atgaatgtgc tgaaatagaa

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

ccctcagcaa atattggaaa

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

gagtaagaaa gagaggttac

20

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80

caggtgtctc gatctccatg

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81

cctcccaaag tgccaggatt

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82

aatcccagct actcgggagg

20

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

gccagtttgg cttgggagaa

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84

ttcatcctcg ctggaagaca

20

<210> 85

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85

tcagatttac ctcgtcttcc

20

<210> 86

<211> 20

<212> DNA

$\langle 220 \rangle$

<400> 86

20

<211> 20

<212> DNA

<220>

<400> 87

20

<210> 88

<211> 20

<212> DNA

<220>

<400> 88

20

<210> 89

<211> 20

<212> DNA

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 89

ttccccctac cttgtacggc

20

<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 90

gtgtgagcca ccacagccgg

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 91

ctgatggctc tggaagtcga

20

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	